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Index*

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1951
★
Agriculture
Experiment Station



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Gold Seal Seeds for 1951

The Western Seed Co.

1425 Fifteenth Street

DENVER 2, COLORADO

6 for \$5.25 ***FINEST Quality No. 1 GRADE***

POSTAGE 30c
SEE PAGE 30

2-YEAR-OLD

R. A. VICTORIA
←

POINSETTIA ↑

GOLDEN DAWN
←

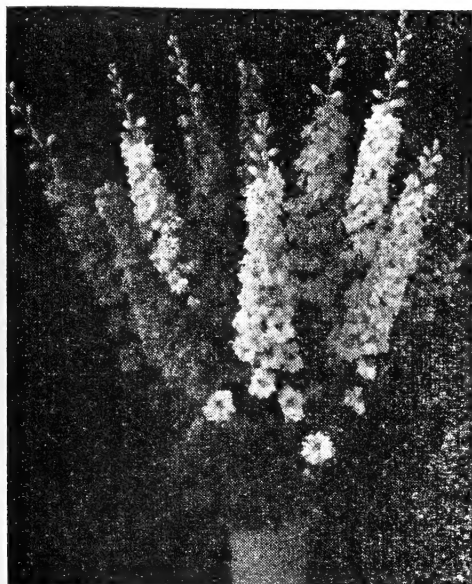
EDITH PERKINS →

GRENOBLE
←

↓ AUTUMN



FLOWERS and VEGETABLES of SPECIAL MERIT



LARKSPUR REGAL STRAIN

PETUNIA FIRECHIEF. The Gold Medal All America Winner for 1950 of brilliant colors. The reddest Petunia ever introduced. It is of dwarf habit, compact type covered with blooms. ←See colored photo, inside front cover.
(Pkt. 40c) (1/16 oz. \$1.50).

LARKSPUR REGAL STRAIN. The finest florist's Larkspur on the market, and these same desirable features make it perfect for home garden culture. Huge, double Delphinium like florets evenly spaced on tremendous, long, full spikes; vigorous; more resistant to shattering. Mixed colors.
(Pkt. 15c) (1/4 oz. 30c) (1/2 oz. 50c).

TETRA SNAPDRAGON. The finest snapdragon for outdoor culture. Plants erect, sturdy with heavy long stems covered with large ruffled florets. The central stem grows 2 ft. surrounded by several stems branching from the base.

Superfine Mixture. A sensational mixture including a complete range of colors and bicolors.

(Pkt. 20c) (1/8 oz. 85c).

See colored photo.

DIANTHUS (GAIETY) (Annual Pinks). The most beautiful strains of Dianthus. Flowers large, single with deeply cut petals. Good range of gay and brilliant colors in addition to new shades of salmon, pink, and rose.

(Pkt. 15c) (1/4 oz. 35c) (1/2 oz. 60c).

CUTHBERTSON SWEET PEAS. (That flower in hot weather). They are the true Spencer type, have exceptional vigor, continue blooming long after hot weather comes. Their colors are bright and clear. Stems long; flowers large and fragrant.

David. Bright rose crimson.

Coline. Scarlet.

Frank G. Rosy lavender.

Lois. Rose pink.

Catherine. Cerise.

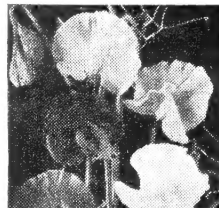
Janet. White.

(Large pkt. 15c) (oz. 20c) (1/4 lb. 75c)

(1 lb. \$2.60) Postpaid.

Mixed Cuthbertson. See page 50.

CHERRY BELLE RADISH. A new, excellent, mid-season variety. See page 30.



**SWEET PEAS
MIXED
CUTHBERTSON**

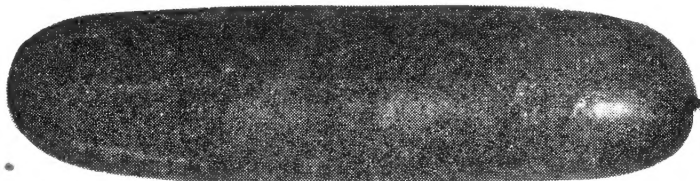
IOCHIEF HYBRID CORN. See page 14.

CASERTA SQUASH (Summer). An early Italian Marrow type similar to Zucchini and Cocozelle but more prolific. Plants more compact. Fruits light green with darker mottling. Excellent eating qualities. A few plants will serve the family for a long season. Fruits picked when small.

(Pkt. 10c) (1 oz. 25c) (1/4 lb. 60c) (1 lb. \$2.25) Postpaid.

HYBRID CUCUMBER. Extremely vigorous. Vines live and produce after others have ceased. High disease resistant. Outyields other varieties. Of excellent quality, shape, and size.

(Pkt. 25c) (1/2 oz. \$2.20) (1 oz. \$4.00) (1/4 lb. \$11.00) (1 lb. \$35.00).



HYBRID CUCUMBER

PREMIER GREAT LAKES. An outstanding new iceberg type lettuce well adapted to western climate and conditions. See description page 20.

WHITE SWEET SPANISH ONION, DRAKOS. The best keeping White Sweet Spanish. Bulbs run very uniform. Medium to Jumbo. See page 23.

PEAS, LITTLE MARVEL. Rather old variety, but still considered the outstanding home garden variety.

(Pkt. 8c) (1/4 lb. 15c) (lb. 45c) postpaid.

See page 26.

WISCONSIN COPENHAGEN. 100% yellow resistant. One of the best developments in cabbage breeding. Wisconsin Copenhagen excels all other second early types. Heads good green color, round, uniform. Can be planted close together for small to medium heads. Matures ahead of Racine Market.

(Pkt. 10c) (1/2 oz. 30c) (oz. 50c) (1/4 lb. \$1.50) (1 lb. \$4.50).

MIDGET WATERMELON NEW HAMPSHIRE. A Gold Medal award from All America trials. A watermelon no larger than a good sized cantaloupe. Quite early, produces an amazing number of mature melons in a little over two months from planting. Flesh red, skin gray.

(Pkt. 10c) (1/2 oz. 20c) (oz. 30c) (1/4 lb. 85c) (1 lb. \$2.45).

Vegetable and Flower Seed Collections

GOLD SEAL VEGETABLE COLLECTION \$1.49 Postpaid

23 full sized packages which sell for \$2.10

Beans, Brittle Wax	Parsnip, Hollow Crown
Beans, Stringless Key- stonian	Peas, Laxton's Progress
Beets, Detroit Dark Red	Pumpkin, Small Sugar
Cabbage, Early Copen- hagen Market	Radish, Ea. White Icicle
Carrot, Chantenay	Radish, Scarlet Globe
Corn, Ea. Golden Bantam	Spinach, Long Standing Bloomsdale
Corn, Evergreen, Late	Squash, Acorn
Cucumber, Marketer	Squash, White Scallop (Bennings).
Lettuce, Grand Rapids	Swiss Chard
Lettuce, Great Lakes	Turnip, Purple Top White Globe
Muskmelon, New Yorker	Watermelon, Klondike
Onion, Mt. Danvers	

LARGE VEGETABLE GARDEN COLLECTION \$2.40 Postpaid

Regular Price \$3.05

1/2 oz. Beets, Detroit
 1/4 lb. Beans, Stringless Keystonian
 1/4 lb. Beans, Brittle Wax
 1 pkt. Cabbage, Early, Copenhagen
 1/2 oz. Carrots, Chantenay
 1/4 lb. Corn, Early Bantam
 1 pkt. Cucumber, Long Green
 1/2 oz. Lettuce, Grand Rapids
 1/2 oz. Lettuce, Great Lakes
 1 pkt. Muskmelon, Improved Greeley Wonder
 1/4 oz. Onions, Mountain Danvers
 1/2 oz. Parsnips, Hollow Crown
 1/4 lb. Peas, Little Marvel
 1 oz. Pumpkin, Sugar
 1 oz. Radish, Long White Icicle
 1 oz. Radish, Scarlet Globe
 1 oz. Spinach, Long Standing Bloomsdale
 1 oz. Squash, Hubbard
 1 oz. Squash, White Bennings
 1 pkt. Turnip, Purple Top Globe
 1 pkt. Watermelon, Klondike

MOUNTAIN VEGETABLE COLLECTION 89c Postpaid

Regular price of this selection \$1.15

We find that mountain grown vegetables are far superior in quality to those grown elsewhere, therefore, everybody living in the mountains should raise at least enough vegetables for his own use. Many sorts of vegetables will not grow in the high altitude. We have made up a collection that will mature.

1/4 lb. Beans, Stringless
 1 pkt. Beets, Detroit Dark Red
 1 pkt. Cabbage, Copenhagen Market
 1 pkt. Carrots, Danvers Half Long
 1 pkt. Lettuce, Great Lakes
 1/4 lb. Peas, Laxton's Progress
 1 pkt. Parsnips, All American
 1 pkt. Radish, Scarlet Globe
 1 pkt. Rutabaga, Laurentian
 1 pkt. Swiss Chard
 1 pkt. Spinach, Long Standing Bloomsdale
 1 pkt. Turnip, Purple Top White Globe

Other
Collections
See
Page 103

FARM GARDEN COLLECTION

ONLY \$3.57 Postpaid

Regular price of this selection \$4.15

1/2 lb. Beans, Stringless Keystonian
 1/4 lb. Beans, Brittle Wax
 1 oz. Beet, Detroit Dark Red
 1 oz. Carrot, Red Core Danvers
 1/2 lb. Corn, Golden Bantam Early
 1/2 oz. Cucumbers, Straight 8
 1/2 oz. Lettuce, Grand Rapids
 1/2 oz. Lettuce, Great Lakes
 2 oz. Muskmelon, Improved Greeley Wonder
 1 oz. Onion, Mountain Danvers
 1/2 oz. Parsnips, Hollow Crown
 1/2 lb. Peas, Stratagem. 1/2 lb. Peas, Little Marvel
 1 pkt. Pumpkin, Sugar
 1/2 oz. Radish, Long White Icicle
 1/2 oz. Radish, Scarlet Globe
 1 oz. Spinach, Long Standing Bloomsdale
 1 oz. Squash, Acorn 1 pkt. Swiss Chard
 1 oz. Turnip, Purple Top Globe
 1 oz. Watermelon, Klondike

FLOWER SEED

FLOWERING ANNUALS COLLECTION 98c Special Price

Packed separately, this collection would cost \$1.30

1 pkt. each—Marigold Dwarf mixed, Petunia mixed, Zinnia Giant mixed, Alyssum, Calendula, Cosmos, Larkspur, California Poppy, Mourning Bride, Sweet Sultan, Four O'clock, Bachelor Button Double Blue, and Helichrysum.

OUR EASY TO GROW FLOWER COLLECTION 40c Postpaid

Regular selling price of this selection is 70c

1 pkt. each—Larkspur, Alyssum, Carpet of Snow, Marigold Harmony, Zinnia Giants, Sweet Sultan, Cosmos, Sweet Peas.

COLLECTIONS

SPENCER SWEET PEA

"GREAT FIFTEEN" COLLECTION

ONLY \$1.16 Postpaid

Regular price \$1.50

1 pkt. each: Capri, Carlotta, Maytime, Discovery, Red Rover, Golden Wings, Highlander, Vista Bonnie Brier, Patricia, Welcome, Snow White, Black Diamond, Tangerine, Youth.

"GREAT SEVEN" COLLECTION

ONLY 49c Postpaid

Regular price 70c

Snow White, Flora, Welcome, Carlotta, Maytime, Patricia, Discovery.

Quality Seeds Produce Quality Vegetables

"GOLD SEAL"

Stands for the Best in Seeds

The old saying, "Western Seeds for Western Growers," is a safe guide. Our seed is put up under the "Gold Seal" trade mark, and it is your protection in the garden and on the farm.

We operate numerous farms and trial grounds throughout Colorado and Arizona, a good portion of which is devoted to seed production and to extensive field trials of the seed we sell.

We have our own seed analyst and a seed testing laboratory. This work enables us to offer you only proven quality.

All seeds offered in this catalog will be equal to or better than the government standard for germination unless otherwise stated.

TERMS—We gladly open charge accounts for persons of approved credit.

PRICES ON VEGETABLE SEEDS FOR COMMERCIAL GROWERS

We will gladly recommend varieties suitable for your particular growing area and will quote quantity prices.

FIELD SEED PRICES

Quantity prices on field seeds are not stated for the reason that they cannot be accurately determined at the time the catalog is printed. As field seeds move in larger volume than garden seeds, stocks and markets are constantly changing. We, therefore, issue price lists to meet these conditions and they will be mailed to interested parties upon request.

Or, if you have an idea of the variety or kind and approximate amount of Field Seeds you may require, send us your list and we will, without obligation to you, gladly make Special F.O.B. or Delivered Prices.

Our Field Seeds are described in this catalog on pages 79 to 88.

CONDITION OF SALE

The Western Seed Company warrants, to the extent of the purchase price, that seeds, plants, bulbs or nursery stock sold are as described on the container within recognized tolerances. Seller gives no other or further warranty, express or implied.

PLANTS

On account of the delays in transportation and the perishable nature of fresh vegetable and flower plants we cannot guarantee that plants in all instances will arrive in suitable condition.

OUR RETAIL STORE



We maintain for the convenience of those in the vicinity of Denver, a retail store located at 1425 15th Street between Market and Blake Streets where a welcome awaits you.

We also have three warehouses comprising over 44,000 square feet of floor space where we aim to carry a large and complete line of farm and garden seeds and supplies.

ASPARAGUS SEED

1 pound will produce about 6,000 roots

CULTURE: Sow seed thick in rows 20 inches apart. Use plenty of water for the seed has a hard hull. After the plants start growing do not cultivate closely as this will injure the roots. The following spring or second year the roots should be dug, separated and transplanted in the field or garden, making trenches about 4 inches deep, 6 inches wide; place roots, crown up, 20 inches apart. Leave the rows 3½ feet apart. If you do not care to wait and raise your own roots we can supply you with two-year-old roots of the varieties listed below. Asparagus does not require as much water as most vegetable crops.

MARY WASHINGTON. (Re-selected.) Very productive. Best rust resistant strain, selected by the U. S. Dept. of Agriculture. Produces rich, thick, dark green stalks, tinted darker at tips. It is an

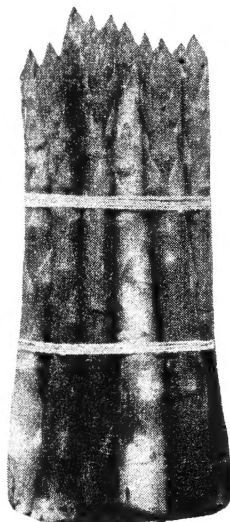
early and fast growing variety.

(Pkt. 7c) (oz. 20c) (¼ lb. 60c) (lb. \$2.00).

PARADISE. A new large rust resistant asparagus which will produce a crop of large, heavy, rich green stalks, one year earlier than other varieties.

(Pkt. 10c) (oz. 35c) (¼ lb. \$1.15) (lb. \$3.50).

ASPARAGUS ROOTS. See page 38.



MARY WASHINGTON

ARTICHOKE

JERUSALEM or POTATO. A dandy hog feed, heavy bearer. See page 38.

GREEN GLOBE. Bears large globular, deep green heads which are eaten. Plants bear second year from seed.

(Pkt. 15c) (½ oz. 30c) (oz. 55c) (¼ lb. \$1.75).

BEANS

1 pound for 100 hills; 60 lbs. will plant an acre
We catalog Only the Leading and Best Varieties

CULTURE: Beans must not be planted until danger of frost is past and the soil is quite warm. Plant in rows 18 to 30 inches apart for hand cultivation, or 2½ to 3 feet apart for field culture. Space the seed 2 to 3 inches apart in the rows and cover with 1 to 2 inches of soil. For a continuous supply make sowings every 2 weeks until 10 weeks before the first expected frost. Beans are more delicious and bear longer when picked before fully matured. Give frequent and shallow cultivation until blossoms appear.

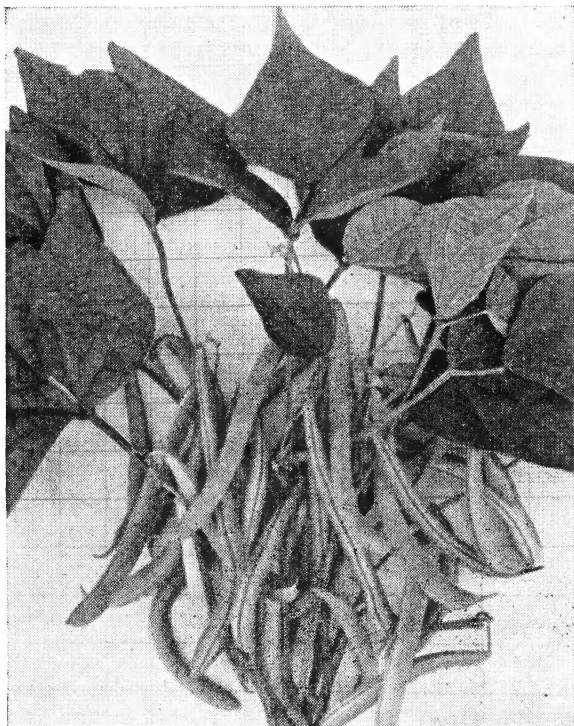
GREEN BUSH VARIETIES

BOUNTIFUL or EARLY SIX WEEKS. 49 days. Is the earliest of the green varieties. A very productive bean, pods are about 5 inches long, straight, handsome, rather light green, flat and of good quality. It is very popular on Eastern Markets. Similar to Plentiful.

CONTENDER. A new bean that has almost everything. Very early. Exceptionally heavy yielder and fine quality. Pods stringless and fiberless, 6½ inches long, round, slightly curved. Resistant to most bean diseases. Especially recommended where seasons are short.

TOPCROP or FULCROP. Gold Medal All-America Winner for 1950. An improvement of Rival and two days earlier. Equal to Tendergreen in quality, but a better yielder. Pods round 6½ to 7 inches; stringless and fiberless. Resistant to bean Mosaic disease.

FULL MEASURE. Produces an abundance of pods 6 to 6½ inches long; stringless and fiberless; tender and meaty even after the bean is well matured. Recommended for home gardens, canning, and freezing.



TOPCROP or FULCROP

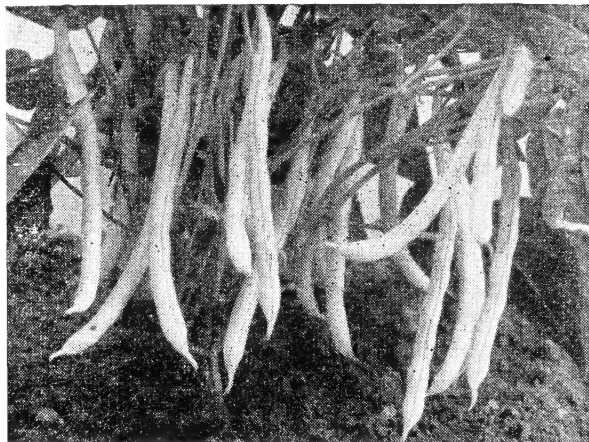
BLACK VALENTINE STRINGLESS. With shippers and large market growers this is the most widely used and popular bean as it stands up in transit better than any other bush variety. Pods strictly stringless, 6¾ inches, dark green, slender, oval, nearly straight. Seed solid black.

TENDERGREEN or ASGROW STRINGLESS. 54 days. An outstanding general purpose bean. Pods stringless, straight, round, 6 inches long, dark green, meaty and free from fiber. Plants vigorous growing and very productive.

KEYSTONIAN. A fine bush bean for home gardening and freezing. Bears a heavy crop of 6 inch, round, dark green, fleshy, stringless pods.

LANDRETH STRINGLESS. 52 days. A greatly improved Burpee's Stringless. Pods are longer, slightly more round, flesh more tender, less fibrous, and no strings.

GIANT STRINGLESS. 55 days. Exceedingly productive and very hardy. Light green stringless pod 6 inches in length, round and fairly straight.



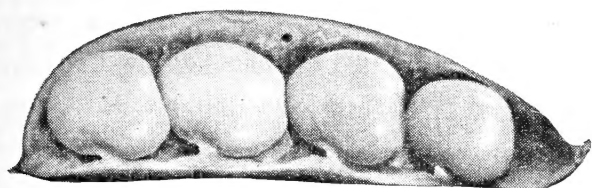
ROUND POD KIDNEY OR BRITTLE WAX

WAX BUSH VARIETIES

ROUND POD KIDNEY or BRITTLE WAX. 54 days. An outstanding sort for home use and for the market trade. Plants large, erect, medium green, vigorous and productive. Pods handsome in appearance, medium yellow, round, slightly curved, extremely brittle; fleshy, absolutely stringless and fibreless; the best of the round podded wax varieties.

PENCIL POD BLACK WAX. 53 days. A desirable home and market garden variety. Plants strong and productive. Pods round, slightly curved, brittle and absolutely stringless. Seed solid black.

TOP NOTCH GOLDEN WAX. A much improved type of Golden Wax. Pods are stringless, smooth, symmetrical oval, light golden color, very tender, 5 to 6 inches long, almost an inch longer than improved Golden Wax. Very productive.



EARLY MARKET DWARF LIMA

LIMA OR BUTTER BEANS

1 pound for 100 hills

CULTURE: Planting and care of Limas same as other Bush Beans, except 4 inches apart in row and for best yield a warm, sandy loam is desirable.

BABY LIMA or HENDERSON BUSH. 68 days. Popular with home gardeners as a green shell bean, also as a dry bean. Plants medium size, heavy yielder of short flat pods containing 3 to 4 oval beans.

FORDHOOK No. 242. 76 days. An improved Fordhook; stands dry weather better. Pods broad, thick, containing 3 to 4 beans of fine flavor. Plants dwarf and spreading.

EARLY MARKET DWARF LIMA. A large seeded variety producing a heavier set of pods 5 to 10 days earlier than Burpee Bush; seed broad, flat, greenish cream.

BURPEE IMPROVED BUSH. 78 days. Plants large, vigorous, very productive; pods large, 5 inches.

SHELL BEANS

DWARF HORTICULTURAL (Speckled Cranberry.) Excellent as green shelled bean. Also used as snap beans and dried beans. Pods wide and 5 inches long. Beans green splashed with carmine.

LONG WINDSOR or FABA. A late variety for use as a green shelled bean. Plants are very large and erect, bushy; pods glossy green, broad and very thick. At eating stage the beans are light green, broad, flat, and usually three to a pod. Also edible when dry. Seed reddish-brown with black eyes.

POLE BEANS OR RUNNING VARIETIES

KING OF THE GARDEN (Pole Lima). 89 days. Spendid climber; very productive. Seeds large.

KENTUCKY WONDER or OLD HOMESTEAD (Green). 67 days. The best known and most popular pole bean. Good for home and market garden, and for canning. Pods 7 to 9 inches long, practically round, curved, with undulating surface, meaty, of good quality. Strong climber, hardy, very prolific over long season. Very brittle. Stringless when young.

KENTUCKY WONDER WAX. The best wax podded pole bean. Fast grower. Vines are strong. Stringless, fleshy, almost round yellow pods, 8 inches long.

All Beans, pkt. 8c

POSTPAID

NOT POSTPAID

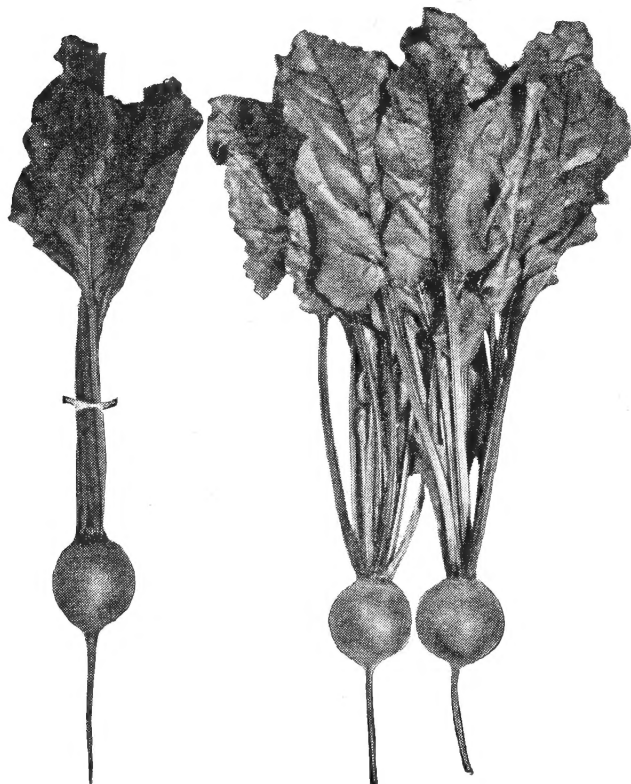
BEANS, ALL GREEN BUSH VARIETIES	Days to Picking	POSTPAID				NOT POSTPAID	
		¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.	25 lbs.
Bountiful or Early Six Weeks.....	49	\$.15	\$.25	\$.40	\$1.55	\$2.75	\$6.00
Contender	48	.17	.30	.50	2.10	3.40	7.75
TopCrop	50	.15	.30	.45	1.95	3.10	7.25
Full Measure	53	.15	.25	.45	1.90	3.00	7.15
Giant Stringless	55	.15	.25	.45	1.75	2.75	6.40
Keystonian	53	.15	.25	.45	1.80	2.75	6.50
Tendergreen or Asgrow Stringless.....	54	.15	.25	.45	1.80	3.00	7.25
Landreth Stringless	52	.15	.25	.45	1.75	2.70	6.50
Stringless Black Valentine.....	53	.15	.25	.45	1.80	2.80	6.75
WAX BUSH VARIETIES							
Round Pod Kidney or Brittle Wax.....	54	.17	.30	.50	2.25	3.40	8.00
Pencil Pod Black Wax.....	53	.17	.30	.50	2.25	3.25	7.75
Top Notch Golden Wax.....	52	.15	.30	.50	2.00	3.25	8.00
LIMA OR BUTTER BEANS							
Baby Lima or Henderson Bush.....	68	.15	.25	.45	2.00	3.00	6.50
Fordhook No. 242.....	76	.17	.30	.55	2.50	4.50	8.75
Burpee Improved Bush	78	.17	.30	.50	2.25	4.00	8.75
Early Market	70	.15	.30	.55	2.35	3.60	8.50
SHELL BEANS							
Dwarf Horticultural	55	.17	.30	.50	2.15	3.50	8.75
Long Windsor or Faba.....	75	.15	.25	.45	2.00	3.25	7.50
POLE BEANS OR RUNNING VARIETIES							
King of the Garden.....	89	.15	.30	.50	2.35	3.60	8.50
Kentucky Wonder or Old Homestead.....	67	.15	.25	.45	2.00	3.00	7.00
Kentucky Wonder (Wax).....	68	.17	.30	.50	2.20	3.75	7.25

TABLE BEETS

We Catalog Only
the Leading Varieties

1 ounce will sow 50 feet of row; 5 to 6 pounds
will plant an acre

CULTURE: Beets will grow in any fertile soil but thrive best in deep, rich sandy loam. Seed may be sown in the early spring as soon as ground can be worked; later sowings for continuous supply, every two or three weeks until the middle of July. Sow seed in rows 18 to 24 inches apart and cover 1 inch deep. Thin plants to stand 3 to 4 inches apart in the rows. Beets do not require an abundance of water. Frequent light waterings are better than heavy soaking.



DETROIT DARK RED

PERFECTED DETROIT

BROCCOLI

CULTURE: Same directions as for cabbage. Packet produces about 250 plants. ¼ lb. required for an acre.

EARLY DeCICCO. Extremely early strain, large heads ready for market 10 days ahead of other varieties. Also produce large percentage of side shoots. Excellent for bunching.

EARLY GREEN SPROUTING. 85 days. Vigorous early type forming large, compact, central, purple green heads which after being cut are replaced with a number of smaller shoots.

GREEN SPROUTING MEDIUM EARLY STRAIN. 100 days. A very fine strain and extra heavy yielder. Seed should be started early in hotbeds. Forms many shoots.

EARLY EGYPTIAN. 57 days. This is one of the best varieties for forcing and early planting. Skin and flesh purple red and while young is very sweet and tender. Oval shaped, but with continued growth it becomes broader and fatter and a little coarse.

EARLY WONDER. 60 days. Valuable as an early variety. Tops medium small, erect. Roots semi-globular, blood red, with small tap root. Flesh blood red with zones of somewhat lighter shade; tender and of good quality.

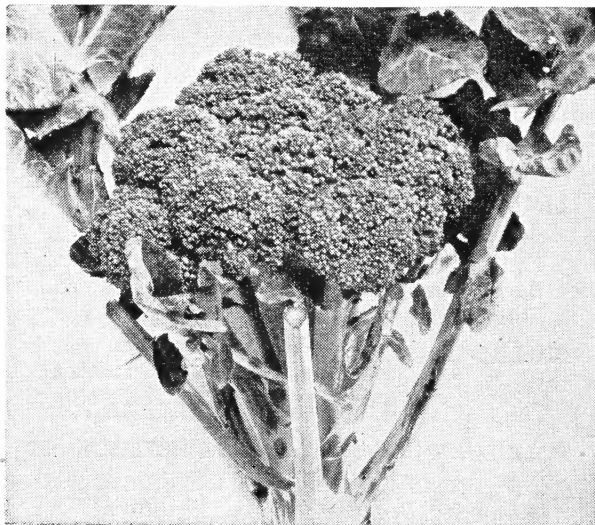
CROSBY'S EGYPTIAN (Special Strain). 62 days. Almost globe in shape with small tap root and of fine quality. Vermilion color, of very attractive appearance when bunched. Very satisfactory for market garden and as a shipping sort.

DETROIT DARK RED. 70 days. A standard variety for home, market garden, shipping and canning. Tops uniform, small, slender, erect. Roots globe-shaped; symmetrical, with small collar and small tap root. Flesh very dark color, the zones are so inconspicuous that the flesh appears as a solid ball of blood red meat and remains tender and of the highest quality until roots are full grown.

PERFECTED DETROIT. Tops medium to tall, leaves green tinged with red; used extensively as greens instead of spinach. Roots globular, medium smooth, deep red; flesh dark red and practically free from zoning; of good quality, well liked by market gardeners and canners.

ECLIPSE 705 or DALLAS BUNCHING. 62 days. Extensively used as a bunching beet in Texas markets. Roots globular, attractive. Color vermillion with slightly zoned blood red flesh. Tops medium.

GREEN TOP BUNCHING or GREEN LEAF DETROIT. 70 days. Extremely attractive bunching beet. Tops medium sized and erect. Foliage clean, grayish green, does not turn red or brown in autumn. Roots round, smooth, and glossy. Flesh bright, blood red.



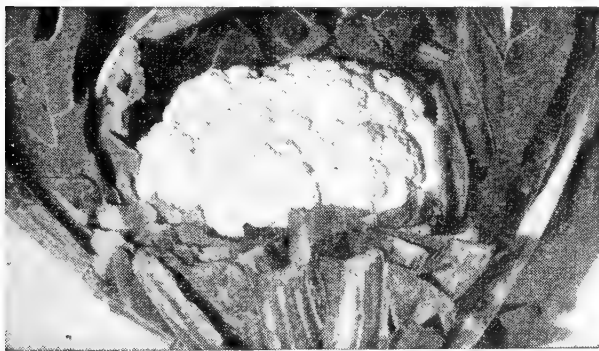
EARLY GREEN SPROUTING

CAULIFLOWER

One oz. for 2500 plants; 5 oz. for an acre

CULTURE: For early June crops with altitudes about the same as Denver, sow seed in hotbeds during February. For higher altitudes, later planting is best. Plants should be gradually hardened off before setting out in the field, which should be done shortly after the first of April. For midseason crops plant seed in cold frames. For late crops plant seed in May and after plants are 4 to 6 inches high, transplant to field about June 15th. Cauliflower is grown much in the same manner as cabbage. To make the best, largest and whitest heads the plants need moderate weather, well enriched soil and thorough cultivation until the plants become quite large. After the heads begin to form, the leaves should be drawn up around them and tied, thus to produce snowy white heads. Cauliflower is very sensitive and extreme care is necessary in growing the plants. Be careful that the hotbeds are not kept too warm and plants grow too tall and spindly, nor must the roots at any time be allowed to become dry either in the plant bed or in the field. Cauliflower worms can be controlled by the use of CUBOR without danger of poisoning. For aphids (plant lice) use Black Leaf 40, Vapatone, or Chlordane (Colorado 44). See pages 89-90.

MOUNT BLANC. A marvelous early main crop variety. Even with adverse weather, will yield an abundance of marketable large snow white heads. Plants short, stalky with heavy broad closely set foliage. Crop heads simultaneously, 3 cuttings usually clear the fields. This variety has given wonderful results in the San Luis Valley, Canon City, Denver, Pueblo, Phoenix. Especially adapted to the Rocky Mountain region.



MOUNT BLANC



SNOWDRIFT NO. 16 GOLD SEAL STRAIN

EARLY SUPER SNOWDRIFT. An outstanding new cauliflower. It is early. Plants grow and head like Super Snowball, but the heads are larger, heavier, deeper and more solid, like Snowdrift. All growers who have tried this new variety are reordering seed.

SUPER SNOWBALL STRAIN A. Also known as Early Mountain Snowball suited for early main crop. A fast grower, heads large, firm, and white. Four days later than Mount Blanc.

SNOWDRIFT NO. 16 GOLD SEAL STRAIN. There are several strains of Snowdrift and after years of closest observations, trials, and growing hundreds of acres of cauliflower ourselves we have found this strain superior. Although it is a medium early variety we recommend Snowdrift No. 16 for the main mid-season and late crops. Plants are vigorous, rather short stem, leaves long and erect, forming a good protection for the deep, heavy, well rounded white heads. We can furnish either European or American grown seed but recommend the European.

SNOWBALL X STRAIN. Also known as White Mountain and is much like Snowdrift No. 16 except plants grow taller and about 5 days later. Heads are deep, solid, white, protected with good heavy foliage.

ALL PRICES POSTPAID

		Days	Pkt.	Oz.	¼ lb.	1 lb.	5 lbs.	10 lbs.
BEETS								
Early Egyptian	57	\$.08	\$.17	\$.50	\$ 1.45	\$ 1.35	\$ 1.30	
Early Wonder	60	.08	.17	.50	1.45	1.35	1.30	
Crosby's Egyptian	62	.08	.17	.50	1.45	1.35	1.30	
Detroit Dark Red.....	70	.08	.17	.50	1.45	1.35	1.30	
Perfected Detroit	68	.08	.17	.50	1.45	1.35	1.30	
Eclipse 705 or Dallas Bunching.....	66	.08	.17	.50	1.50	1.45	1.35	
Green Top Bunching.....	70	.08	.17	.45	1.40	1.35	1.30	
BROCCOLI		Days	Pkt.	1 oz.	¼ lb.	1 lb.	5 lbs.	
Early DeCicco	63	.10	.35	1.10	3.90	3.75		
Early Green Sprouting	73	.10	.30	.90	2.90	2.70		
Green Sprouting	80	.10	.25	.75	2.90	2.70		
CAULIFLOWER		Days	Pkt.	¼ oz.	Oz.	¼ lb.	1 lb.	
Mount Blanc, Holland Grown.....	55	\$.20	\$.70	\$ 1.90	\$ 6.50	\$ 22.50		
Early Super Snowdrift, Holland Grown....	58	.20	.75	2.15	6.75	22.50		
Snowdrift No. 16 Gold Seal Strain.....	64	.20	.70	1.90	6.50	22.50		
Super Snowball Strain A.....	58	.15	.70	1.90	6.50	21.00		
Snowball X Strain.....	62	.15	.70	1.90	6.50	21.00		

CABBAGE

One oz. for 2500 plants; 6 oz. for an acre

We List Only the Best Varieties

We are large growers and shippers of cabbage, growing and shipping hundreds of cars yearly. We test and try out on our vegetable farms, every new introduction of cabbage and the varieties listed herein are those found to be best adapted to the soil and climatic conditions of the West.

CULTURE: The ground should be well fertilized, deeply plowed (fall plowed if possible). For early planting sow seeds of the early varieties in hotbeds the first part of February. For second early and later crops sow in March and April, in hotbeds or cold frames. The plants should be set in rows $2\frac{1}{2}$ to 3 feet apart and from 12 to 18 inches apart in the rows, according to the richness of the soil—the richer the soil the closer they may be grown. Until the plants start to head they should have frequent cultivation. Seed for midseason and late crops can be drilled out in the field during April and thinned instead of transplanting. Use Cubor for cabbage worms; aphids (plant lice), Black Leaf 40, Vapatone or Chlordane (Colorado 44). See pages 91-92.

EARLY GOLDEN ACRE. The earliest round headed variety, uniform; almost identical to regular Golden Acre except 3 to 5 days earlier.

GOLDEN ACRE. 65 days from setting of plants. A very fine extra early variety maturing uniformly and all heads about at the same time. Heads are round, very firm, bright green color, about 5 to 8 inches in diameter. The stalk is very short, plants can be set close together.

GOLDEN ACRE ELITE. An extra fine strain of Golden Acre. This seed specially selected and grown for uniformity of type, earliness and yield.

COPENHAGEN MARKET IMPROVED. 74 to 76 days. A splendid early, round head short stem sort, head averaging 5 to 8 pounds in weight. The compact growth of the plant, the solidity of the head, make it very popular with the market gardeners. One of the best second early varieties.

GLORY OF ENKHUIZEN. 80 to 85 days. Heads are good size, solid, round in shape, good green color. It matures a little later than Copenhagen Market and just before the Hollander and Danish Roundhead. Excellent shipping and early kraut variety.

DANISH ROUNDHEAD SHORT STEM. Danish grown. 100 to 105 days. A heavy yielding Holland type; heads solid, round, little flattened on top, uniform, heavy yielder.

EVERGREEN HOLLANDER ELITE. 100 to 105 days. The most widely used late variety of cabbage in Rocky Mountain area for both market and shipping trade as the heads are mostly medium size, spherical, firm. Fresh green color which it retains longer than any other late sort. Plants medium, short stems, erect and compact allowing close planting and heavy yields.

DANISH BALLHEAD SHORT STEM HOLLAND. (Gold Seal Quality.) 100 to 108 days. If planted on good ground a large yield can be expected, for the heads are all of a good size, deep round, very solid and interior very compact. Desirable for shipping, storage or high quality kraut.

FERRY'S HOLLANDER. Plants are erect, compact, and short stemmed, allowing close planting. Heads become marketable in 100 days and fully matured in 120 days.

PENN STATE BALLHEAD. 100 to 110 days. A heavy yielder. Heads attractive, extremely hard, flattened globe, 8 to 9 inches across, 6 to 7 inches deep, excellent for winter storage.

CHINESE CABBAGE

It combines the qualities and flavor of both celery and cabbage; very palatable as cole slaw or if boiled excels cabbage. Prized as a salad vegetable.

CULTURE: Same as turnip or lettuce. For spring crop plant as soon as danger of frost is over. For fall crop, plant in July. Sow seed in rows 24 inches apart and after established thin out to 12 inches apart in the rows. Irrigate and cultivate well. Do not allow ground to dry out.

MICHIHLI. Similar to chihli but with uniformity and heading qualities hitherto unknown in Chinese Cabbage. Heads larger and firmer. Rich dark green outer leaves without yellowish cast. Trimmed heads are well blanched.

CHIHILI. Variety is ready to eat in 70 days from seeding. Leaves are long, green and fringed on edge with white mid-ribs.

SAVOY CABBAGE

CHIEFTAIN SAVOY. The best of the savoy cabbages, medium early but stands a long time without bursting. Plants medium sized, short stemmed, leaves broad, dark green rounded, closely savoyed. Heads medium large drumhead type, thick flat rounded on top.



GLOBE YELLOWS RESISTANT

YELLOW S DISEASE RESISTANT STRAINS

Ground that has been planted year after year with cabbage often becomes infested with disease. These strains have been bred to resist the disease known as "Cabbage Yellows," and remarkable results are obtained and we recommend them highly.

RESISTANT GOLDEN ACRE. 65 days. The earliest of resistant round head cabbages. Selected from Elite Golden Acre. Heads globular, firm. Plants uniform, short stemmed. May be planted close together. 85 per cent resistant.

RESISTANT DETROIT. 66 days. Conforms in type with Golden Acre except matures 2 or 3 days later and heads a little larger which are globular to slightly flattened. 85 per cent resistant.

RACINE MARKET or RESISTANT COPENHAGEN. 70 days. Similar in habits, leaf and head type to Copenhagen Market except color is gray green rather than yellow green.

MARION MARKET. 75 days. Selected from Copenhagen Market but later in maturing, heavier yielding, with larger somewhat coarser heads. Foliage is blue green. An excellent midsummer Kraut variety.

GLOBE. 78 days. The outstanding and most widely used midseason cabbage. A truly fine variety, producing excellent globe-shaped, medium size, very compact heads with small core. Plants are

sturdy with short stem. Because heads are so uniform and retain their green color it is fast becoming the leading shipping variety.

WISCONSIN BALLHEAD. Resistant. 95 days. Selected from Danish Ballhead and practically identical in type and season. Round, solid, compact head of medium size, short stem, blue-green foliage. A fine shipping variety and a good keeper. Will produce heavy tonnage even if planted close. Very uniform in type and maturity so that over 90 per cent can be harvested at the first cutting. 97 to 100 per cent resistant.

WISCONSIN HOLLANDER No. 8. 100 days. Selection from Danish Ballhead. Very heavy yielder. Heads round, slightly flattened across top, firm. Color blue green. A good keeper. 90 to 100 per cent resistant.

RED CABBAGE

RED HOLLANDER. Yellows resistant. 100 days. A round headed late red cabbage, very uniform, foliage purple red, heads solid and compact. A good storage variety. Highly resistant to yellows.

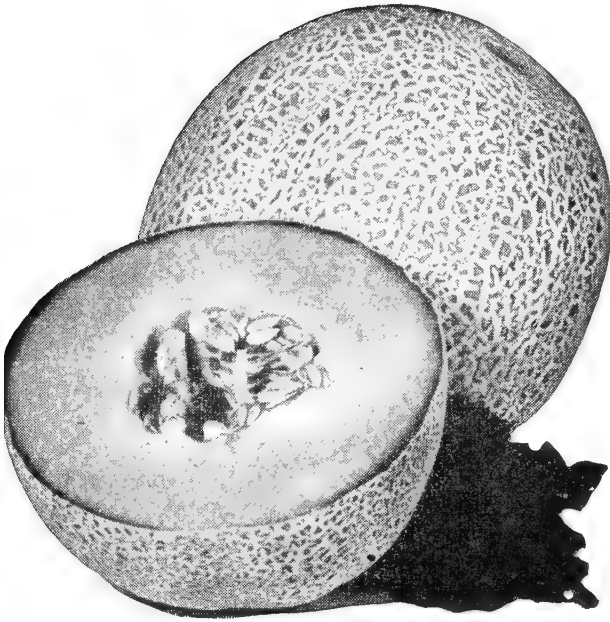
EARLY RED ACRE. 82 days. Heads and leaves a dark red purple, heads round, medium sized, and solid. Matures earlier than other varieties.

MAMMOTH RED ROCK. 105 days. Is a medium-late maturing variety. Heads are round, medium to large, hard, of dark bluish red color.

CABBAGE PLANTS. See page 38.

All Cabbage, pkt., 10c		ALL PRICES POSTPAID				
CABBAGE, EARLY	Days	½ oz.	Oz.	¼ lb.	lb.	5 lbs.
Early Golden Acre	62	\$.25	\$.45	\$ 1.15	\$ 3.15	\$15.00
Golden Acre	65	.20	.35	1.15	3.15	15.00
Golden Acre Elite.....	66	.25	.40	1.20	3.60	16.50
Green Acre	72	.20	.35	1.15	3.25	16.00
Copenhagen Market Improved.....	74	.20	.35	.90	3.00	14.50
Glory of Enkhuizen	80	.20	.35	.90	3.00	14.50
Danish Round Head.....	100	.20	.35	1.00	3.15	15.00
Evergreen Hollander Elite.....	102	.25	.40	1.20	3.60	16.50
Danish Ballhead	105	.20	.35	1.10	3.25	15.50
Ferry's Hollander	105	.25	.40	1.20	3.60	16.50
Penn State Ballhead.....	110	.20	.35	1.10	3.25	15.50
YELLOWS RESISTANT STRAINS						
Resistant Golden Acre.....	65	.25	.45	1.25	3.75	17.50
Resistant Detroit	66	.25	.45	1.25	3.75	17.50
Wisconsin Copenhagen, See Page 1.....	67	.30	.50	1.50	4.50	20.00
Racine Market	70	.25	.45	1.25	3.75	17.50
Marion Market	75	.25	.40	1.10	3.40	16.00
Globe	80	.25	.40	1.25	3.65	16.25
Wisconsin Ballhead	95	.25	.45	1.35	3.75	16.50
Wisconsin Hollander No. 8.....	100	.25	.40	1.00	3.25	15.00
RED CABBAGE						
Early Red Acre	82	.30	.50	1.50	4.25	
Mammoth Red Rock	105	.30	.40	1.40	4.00	
Red Hollander, Yellow-resistant.....	100	.30	.50	1.65	5.00	
SAVOY, Chieftain	85	.25	.40	1.25	4.25	
CHINESE CABBAGE, Chihli	75	.15	.25	.80	2.50	
Michihli	70	.15	.35	.90	2.75	

CANTALOUPE



HALE'S BEST NO. 36

1 oz. will plant 60 hills; 2 to 3 lbs. to an acre

CULTURE: A rich, sandy loam and good seed are absolutely necessary for success in raising the best melons. Muskmelons or Cantaloupes should not be planted on the same ground two years in succession. The seed should not be planted until the ground has become dry and warm. Plant in hills 5 to 6 feet apart each way, dropping 8 seeds to the hill. Cover with 2 inches of soil. Rich earth is far better than manure but if the latter is used see that it is well rotted and thoroughly mixed with the soil. When the plants have five or six leaves thin to two or three of the strongest plants per hill. Cultivate often but not too deep. Should be watered thoroughly about every two weeks.

EXTRA EARLY HACKENSACK. 80 days. A popular first early sort for home garden and local markets. Fruits large, globular with flattened ends. Heavily ribbed with coarse netting. Flesh green, thick, of fine quality. An early variety to grow.

HALE'S BEST IMPROVED No. 36. 86 days. A strain developed from regular Hale's Best No. 36 for uniformity in shape and complete netting. Fruits oval, 3 to 4 lbs., with exceptionally thick, deep, sweet, aromatic flesh. An outstanding, very fine quality melon for shipping and market.

HALE'S BEST or JUMBO 936. 87 days. A large fruited strain. Fruits oval, 5 to 6 lbs., ribbing somewhat prominent, heavy netting. Flesh sweet and of excellent quality.

TIP TOP. IMPROVED BENDER'S SURPRISE. 88 days. Fruits large; roundish to broad-oval, commonly 7½ inches long; skin slate-green ripening to yellowish; furrowed, but sparsely netted. Flesh thick; salmon-yellow; very juicy, sweet, and of good rich flavor.

HEARTS OF GOLD or HOODO. 89 days. Grown extensively for local markets. Fruits nearly round, 3 lbs.; distinctly ribbed, deep green, covered with fine gray netting. Flesh very thick, deep salmon; tender, juicy, sweet and aromatic.

RESISTANT NO. 45. (Hale's Best, Mildew Resistant). 88 days. The most widely planted cantaloupe. Fruits uniform, oval, medium to large, well netted with distinct ribbing. Flesh light orange, thick, firm, and sweet. Can be picked ripe and still stand shipping. Resistant to some forms of powdery mildew.

RESISTANT NO. 45 SELECTED CROWN SET. This seed is selected from the Early Crown Set melons and recommended to the critical growers.

PERFECTO, IMPROVED. 88 days. Rust resistant and a good cropper. Very desirable for shipping or market gardens. Fruits nearly round, 3 lbs., with hard gray netting and no ribs. Flesh very thick with extremely small seed cavity, deep salmon color; fine grained, juicy, sweet and aromatic.

TEXAS RESISTANT NO. 1. 88 days. A new variety developed by Texas Experiment Station, resistant to downy mildew and aphids. Melons are fairly uniform about 4½ by 5½ inches with moderate netting, seed capacity small. Flesh is salmon color, fine texture, sweet and spicy. Is early, withstands drought fairly well.

RESISTANT IMPERIAL NO. 5. Highly resistant to powdery mildew. Vines vigorous, productive. Fruits large, heavy, well netted. Flesh thick, medium, deep salmon, excellent quality. Stands shipping well.

ROCKY FORD or NETTED GEM. 95 days. Green flesh. Fruits are small, nearly round, weigh 2½ pounds; with no ribs, and heavily covered with hard grey netting; flesh thick, green in color, with gold tinge at the center; juicy, delicious and of fine quality.

ROCKY FORD POLLOCK 10-25. 93 days. Fruits nearly round, weigh 2½ pounds; show no ribbing, and densely covered with heavy grey netting. Flesh thick deep salmon at center with green tone near the rind; sweet and spicy.

NEW YORKER or SCHOONS HARD SHELL. A new excellent flavored melon 4 to 7 pounds. Hardshell yellow skin, well netted, deeply ribbed. Good keeper and shipper.

GREELEY WONDER IMPROVED. 87 days. This melon is a decided improvement over the old Greeley Wonder. While the fruits are somewhat smaller, weighing 6 lbs., it is a heavier yielder; couple of days earlier, and melons are more uniform, nearly round with prominent ribs and sparse coarse netting. Flesh thick, salmon colored; small seed pocket and sweet.

MILWAUKEE MARKET. 87 days. Fruit nearly round, 6 lbs. Flesh thick, salmon color and of high sugar content.

MUSKMELONS

QUEEN OF COLORADO. 88 days. The melons are rather large, 4 lbs., with a very heavy, coarse, slightly ribbed rind, covered with a heavy gray netting. Flesh is very thick, deep, orange color, sweet with truly delicious most distinctive flavor.

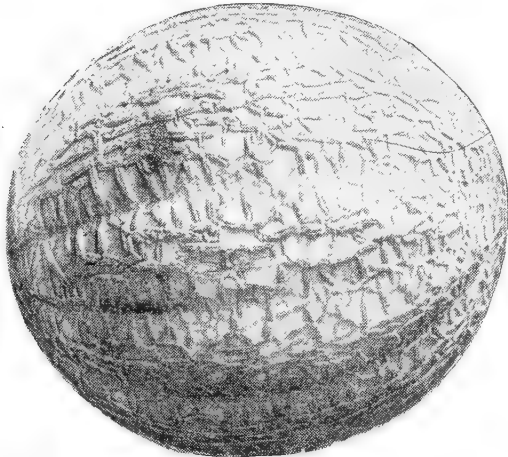
HONEY ROCK. 87 days. Also known as Sugar Rock. Fruit nearly round, medium, weighs 4 pounds. Skin grey-green, covered with a coarse netting. Flesh thick, juicy, orange-salmon, with fine flavor. Good for home use and for shipping to nearby markets.

HONEY DEW, GOLD RIND. 100 days. Like the Green Fleshed Honeydew except 5 days earlier, and when two-thirds grown the rind turns to deep golden yellow; smooth and shiny. Flesh thick, green, of excellent rich flavor.

HONEY DEW GREEN FLESH. 105 days. Fruits large, globular. The outside color is creamy white with some net, ripening to a light cream



HONEY ROCK



QUEEN OF COLORADO

 All-America Selections—Honorable Mention

color. The rind is smooth and hard, suitable for long distance shipping, and with excellent keeping qualities. The thick green flesh is sweet and tender.

GOLDEN HYBRID CASABA. 110 days. Requires a long, warm season to properly mature. Melons large, globe-shaped, pinched at stem end. Outer surface wrinkled, tough. Color golden yellow. Flesh white, luscious and spicy. Best of the Casabas.

OLD-FASHIONED MUSKMELON MIXTURE. This mixture is made of all the varieties we carry; the old-fashioned muskmelons; new varieties of cantaloupes; golden flesh; green flesh; Honey Dews; Honey Ball. For a home garden such a mixture is very interesting and fine melons may be expected.

ALL PRICES POSTPAID

CANTALOUPE AND MUSKMELONS

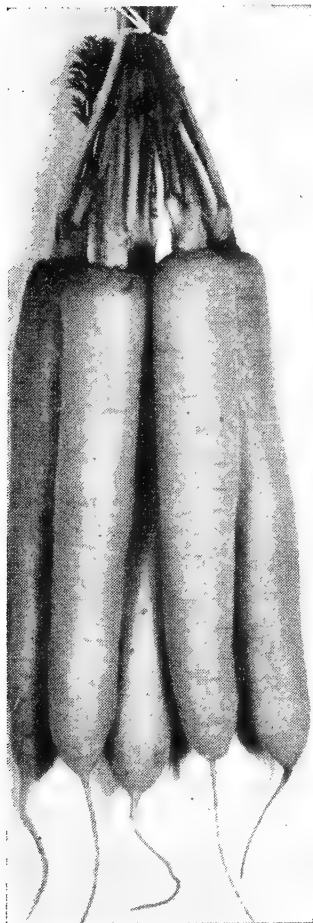
Days	Pkt.	Oz.	¼ lb.	Lb.	5-lbs.
80	\$.10	\$.20	\$.60	\$ 1.90	\$ 9.00
110	.10	.25	.75	2.25	9.60
87	.10	.25	.70	2.00	9.00
86	.10	.25	.70	2.00	9.00
87	.10	.25	.70	2.00	9.00
89	.10	.25	.75	2.10	9.40
100	.10	.25	.75	2.15	9.60
105	.10	.25	.75	2.10	9.50
87	.10	.20	.60	2.00	9.00
90	.10	.25	.70	2.00	9.00
90	.10	.25	.70	2.00	9.00
....	.10	.20	.60	2.00	9.00
88	.10	.25	.60	2.00	9.00
88	.10	.25	.70	2.00	9.00
88	.10	.25	.70	2.00	9.00
88	.10	.30	.85	2.50	11.00
88	.10	.25	.75	2.10	9.50
95	.10	.25	.70	2.00	9.00
93	.10	.20	.60	2.00	9.00
88	.10	.25	.75	2.20	9.50
88	.10	.20	.60	2.00	9.00

CARROTS

One oz. will sow 100 ft.; 3 lbs. for an acre

CULTURE: For early use, sow seeds as soon as soil can be worked in the spring, and for late crops in sections with altitude and climate about the same as Denver, carrots may be planted as late as July 10th. Sow the seed in rows 18 inches apart, but for commercial growers who produce carrots for the shipping trade and general market where a long, uniform, well-colored carrot is desired, a different method of planting and growing is found most practical. That is, to plant two rows 16 inches apart on a bed and 24 inches between the beds for the ditch. By using a wide opening plow on the drill, seed is spread to a width of 3 to 4 inches in the row thus eliminating a large per cent of misshaped carrots. A well prepared seed bed is essential and as the carrots grow, the ditches should be kept deeper and soil kept well banked around the crown of the carrots to prevent green crowns. Care should be used in irrigation. Light waterings are better as this will cause the carrot to go deeper seeking moisture thereby making longer roots which are most desirable.

NANTES IMPROVED. 70 days. Excellent for home and market garden use. Tops small, not strong enough for good bunching. Roots bright orange, cylindrical, blunt ended. Flesh reddish orange, crisp, tender and of very delicate flavor. Practically coreless. Same as Tuchon.

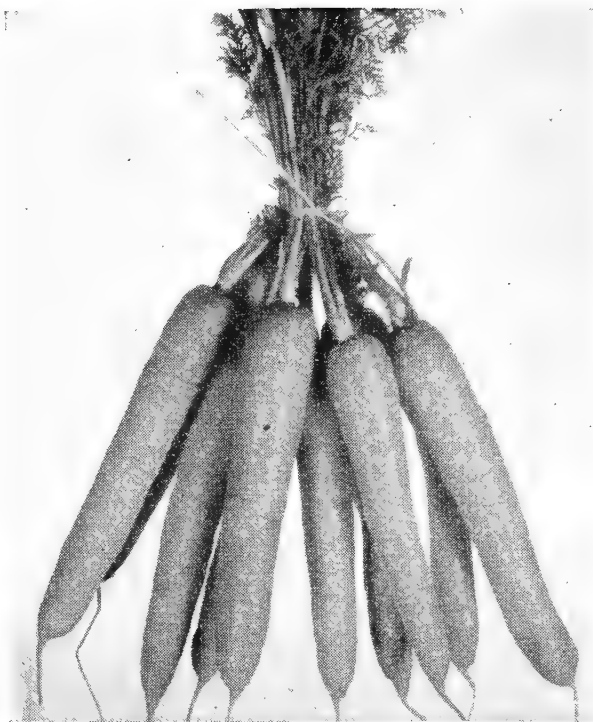


STREAMLINER

CHANTENAY, LONG TYPE. 72 days. A very fine variety of carrot for home and market garden as well as shipping. Medium early. Similar to regular Chantenay with shorter tops, roots are longer, more cylindrical, giving it a fine appearance. Fresh crisp and tender, deep orange in color; small core.

DANVERS HALF LONG. An old favorite and still popular with some growers. Roots six inches with broad shoulders and blunt tip. Orange color. Productive.

CALIFORNIA BUNCHING. Roots 8 in. cylindrical; semi-stumped rounded shoulders. Flesh deep orange; tops short, strong.



 **EMPEROR LONG TYPE**
All-America Selections—Award of Merit

EMPEROR LONG TYPE—A new strain of Emperor merited as a bunching and packaging carrot because of its fine appearance. Strong tops with smooth, uniformly tapered orange colored roots which are larger and little more pointed than regular Emperors. Most desirable variety for market and shipping.

DANVERS RED CORE. 75 days. A distinct improvement over the well known Danvers especially in color and texture; and is longer, more smooth with shorter top. The core is reddish orange; flesh fine grained. An excellent market garden and shipping variety. One of the best all around carrots.

SHORT TOP SHIPPER. 75 days. A new strain bred for planting in districts where under certain weather conditions and rich soils, many varieties of carrots produce too large a top which is quite objectionable as a crating or shipping carrot. This carrot is bred for a shorter top, which is dark green, strong enough for good bunching. Roots long, deep orange, large blunt ended. Flesh bright orange, tender and of good quality.

SUPREME DANVERS. A longer, slimmer and smoother Danvers. Roots are deep orange, almost coreless, with smaller tops.

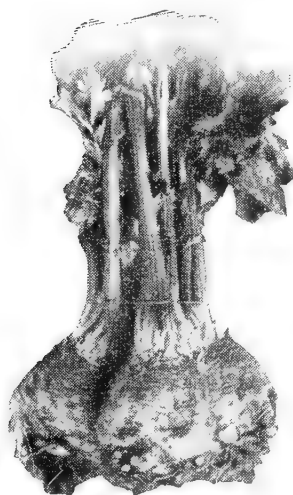
STREAMLINER. Ideal bunching carrot. Similar to Emperor but tops grow shorter with thick stems, strong collar. Color deep orange; core small, self colored. Very few side roots.

CARROTS FOR STOCK FEEDING

Carrots make a healthy and desirable food for stock, and every stock owner should plant them liberally, so as to give his stock an occasional feed of carrots through the winter as an alternative food which is of decided benefit. Plant in March, April or May—the earlier the better—at the rate of 2 to 4 pounds per acre.

LONG ORANGE IMPROVED. A heavy cropping sort for garden use and for stock. Roots tapered to a point; red-orange in color.

MASTODON or WHITE BELGIAN. This abundant yielder is strictly a stock carrot and grows to be of very large size and partly above ground. Flesh is light cream color, skin above ground is green and is white below ground. Is a good keeper. Plant 2 lbs. to the acre of this seed.



CELERIAC

CELERIAC

Culture. The roots instead of the leaf-stalks of this kind of celery are the part used for food. Are excellent in soups and stews, or cooked and sliced for salad. Seed should be started in hotbeds or cold frames. Transplant to moist, rich soil, in rows 2 feet apart and 5 inches apart in rows. Give thorough cultivation.

LARGE SMOOTH PRAGUE. An improved variety of turnip-rooted celery producing large tubers of nearly globular shape and comparatively smooth surface.

(Pkt. 10c) (oz. 50c) (¼ lb. \$1.50) (lb. \$5.00).

CHIVE PLANTS

See Page 38

CHICORY

CULTURE: Sow seed about 1 inch deep in the open ground in May or June in rows about 18 inches apart. Thin the plants to 6 inches apart in the row. In the fall the roots should be lifted, the leaves trimmed to within 1½ inches of the crown, the side roots broken off, and the main roots shortened to a uniform length of about 9 inches. They are then placed upright 2 inches apart in a trench about 18 inches deep where the plants will make new center shoots.

WITLOOF (French Endive). Used extensively for salads. Parsnip-shaped roots are reset in cold frames or trenches. The new leaf growth forms on attractive, compact, blanched shoot 5 to 6 inches long having a pleasant sharp flavor.

(Pkt. 10c) (oz. 30c) (¼ lb. \$1.25) (lb. \$3.85).

LARGE ROOTED or COFFEE. The roots are popular as a coffee substitute. The young leaves may be used for salad. Culture the same as carrots.

(Pkt. 10c) (oz. 30c) (¼ lb. 90c) (lb. \$3.25).

COLLARDS

SOUTHERN or CREOLE. Grown for its large leaves which are cooked as cabbage or greens.

(Pkt. 5c) (oz. 20c) (¼ lb. 60c) (lb. \$1.50).

CRESS

GARDEN CRESS or PEPPER GRASS. 40 days. It grows very quickly and is of the easiest culture. The finely cut leaves may be used for flavoring salads, for garnishing, or as a green in sandwiches. Used with lettuce, it adds an agreeably pungent taste.

(Pkt. 07c) (½ oz. 15c) (oz. 25c) (¼ lb. 75c).

TRUE WATER. The pleasant, peculiar flavor of water cress makes it one of the most delicate salads for table use. It will grow where there is a supply of good fresh water.

(Pkt. 10c) (½ oz. 40c) (oz. 75c) (¼ lb. \$2.50).

CORN SALAD

CORN SALAD. A most refreshing salad. Hardy, much used during winter instead of lettuce. May be sown in open either in the spring or fall.

(Pkt. 5c) (oz. 20c) (¼ lb. 60c).

ALL PRICES POSTPAID

CARROTS	Days	ALL PRICES POSTPAID						
		Pkt.	Oz.	¼ lb.	Lb.	5 lbs.	10 lbs.	
Nantes Improved.....	70	\$.10	\$.25	\$.70	\$2.00	\$9.25	\$18.00	
Tuchon	70	.10	.25	.70	2.00	9.25	18.00	
Chantenay, Long Type.....	72	.10	.25	.70	1.85	9.00	17.50	
Danvers Half Long.....	75	.10	.25	.70	1.90	9.00	17.75	
Danvers Red Core.....	75	.10	.25	.70	2.00	9.25	18.00	
Short Top Shipper.....	75	.10	.25	.65	1.75	8.50	16.00	
Supreme Danvers.....	75	.10	.25	.70	2.00	9.25	18.00	
Imperator Long Type.....	77	.10	.25	.70	2.00	9.25	18.00	
California Bunching.....	77	.10	.25	.75	2.25	9.75	18.50	
Streamliner	80	.10	.25	.70	2.00	9.25	18.00	
STOCK FEEDING								
Long Orange Improved.....	85	.05	.15	.45	1.40	6.50	12.50	
Mastodon or White Belgian.....	90	.05	.15	.45	1.40	6.50	12.50	

SWEET CORN

1 lb. plants 150 hills; 10 lbs. plants an acre

CULTURE: A rich, warm sandy soil is the best, but excellent sweet corn can be raised on any good, ordinary soil if it is deeply and thoroughly worked before planting. In the West sweet corn should be planted as early as can be done without risking great loss from frosts. If planted in rows, make the rows about 3 feet apart and place the seed 14 to 16 inches apart in the rows, covering 1 inch deep with fine soil pressed firmly down. If planted in hills, make the hills for the early variety 3 to 3½ feet apart and plant 6 kernels to the hill. For the later sorts, the hills should not be less than 3½ feet apart and when 6 inches high thin so as to leave 3 or 4 plants in the hill. Give frequent and thorough but shallow cultivation until the tassels appear.

HYBRID VARIETIES

Hybrid corns are of special value to market and home gardeners because of their better qualities and increased yield.

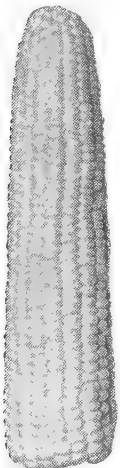
The husk of most Hybrid varieties is much tighter around the ear right up to the tip and this feature keeps the kernels tender a longer time. Also is quite a protection against ear worms. Resistant to wilt.

EARLY GOLDEN ROCKET. 65 days. New, outstanding, extra early yellow hybrid surpassing all other extra early hybrids. Stalks 6 feet producing large attractive ears of 10 to 14 rows of excellent kernels. Especially suited for gardeners growing for profitable early market.

SPANCROSS IMPROVED. 66 days. Extra early, somewhat resistant to cold. Ears 6 to 7 inches with about 12 rows of yellow kernels, uniform in maturity, good quality, stalks 4 feet, stocky.

MARCCROSS NORTHERN. 70 days. This variety gets more popular each year. The largest eared (8 inch), early variety with 14 to 16 rows of tender, sweet, deep kernels; stalks 5½ to 6 feet. For main early crop we recommend this variety.

GOLDEN CROSS BANTAM. The outstanding main crop hybrid corn among market gardeners, home gardeners, freezers, and shippers as it is very productive and excels most other varieties in eating qualities. Stalks 6 feet, heavy foliage bearing two fine ears 8 inches long of 10 to 14 rows of yellow, plump, excellent flavored kernels.



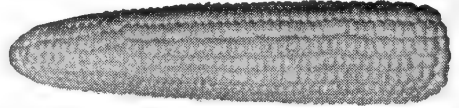
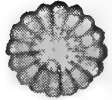
IOCHIEF

GOLDEN CROSS BANTAM ELITE.

Large, uniform, high quality ears qualify our Elite Strain for the critical market gardener trade. Ears white tasseled, large; kernels very deep of rich yellow. Fine eating quality. Heavy yielder.

IOCHIEF. A 1950 introduction. Bears 8 in. ears with 14 to 16 rows of yellow, superior quality kernels that are tender and sweet. Strong clean stalks. Especially adapted for late summer harvest. Do not plant too thick for best ears and largest yield.

GOLDEN CROSS BANTAM ELITE



GOLDEN HYBRID JUMBO. Outstanding among recent introductions for heavy tonnage. Just a little later than Golden Cross. Plants 8 feet, sturdy, with ears well up on the stalk. Ears are 14 to 16 rowed with a large base tapering to a blunt tip. Kernels narrow and deep; excellent quality; husk dark green and very tight making it more resistant to worms. The best variety to follow Golden Cross.

TENDERGOLD (Top Cross). 81 days. A good, highly productive variety. Stalk sturdy with good foliage; highly resistant to disease. Ear nearly cylindrical, 12-16 rowed, kernels medium in width and depth, golden yellow, tender and of very good quality.

BANTAM EVERGREEN (Hybrid). Plants 7 feet tall, vigorous, uniform, comparatively free from suckers. Leaves wide, dark green, and numerous. Ears 7½ to 8 inches of 14 to 16 rows with long husks affording considerable resistance to ear worms. Kernels lustrous, golden yellow, medium, narrow, and deep, tender sweet and of excellent quality.

STANDARD VARIETIES

Open Pollinated

EARLY GOLDEN SWEET. 70 days. A fine extra early sweet corn, 7 to 10 days earlier than Golden Early Market. Especially recommended for sections with short growing season. Ears good size; kernels deep yellow, tender, and sweet.

GOLDEN EARLY MARKET. Valuable first early yellow variety, producing large attractive ears with 12 to 14 rows of moderately broad kernels of good depth. Stalks sturdy with abundant medium dark green foliage. A profitable early home garden and market sort.

GOLDEN GIANT. 88 days. A midseason yellow variety, the result of crossing Golden Bantam and Howling Mob. Good for home and market garden planting. Ears rather thick at the butt, 12 to 16-rowed. Kernels golden yellow.

SWEET CORN

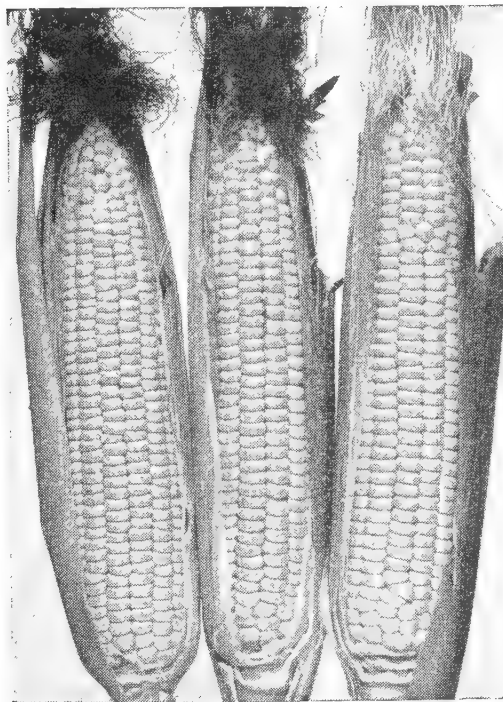
STANDARD VARIETIES (Continued)

EARLY GOLDEN BANTAM. 78 days. The most popular and largely grown sweet corn. It is a hardy, early maturing variety of dwarf growth, and can therefore be planted closer than other sorts and through a longer range of season. The cob is small but fills out nicely with large, deep cream-colored kernels, which turn to a beautiful golden yellow when entirely ripe. Because of its extreme hardiness and ability to withstand unfavorable weather can be planted early. Well adapted to high altitudes and short seasons.

EARLY ADAMS. 80 days. Used throughout the country for **Roasting Ears**; 12 to 14 rows; reasonably tender and sweet when young. Can be planted early as will stand more cold and damp weather than other sweet corn.

EARLY EVERGREEN. 90 days. The ears of this fine corn are 10 inches long, having 14 to 18 rows of deep kernels of excellent flavor. A magnificent kind for market gardeners and for second early crop in the home garden. It ripens one week in advance of Stowell's Evergreen but ears are not quite as large. Remains green a long time.

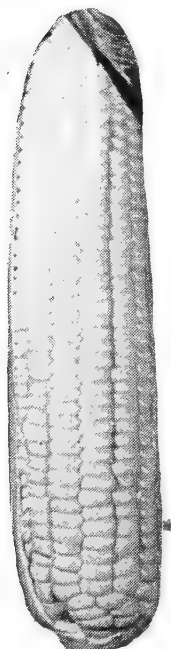
STOWELL'S EVERGREEN. 97 days. The best known late variety of sweet corn. Highly desirable for home and market garden and used extensively by canners. Stalks sturdy and erect; ears 2½ inches thick, uniform, 16 to 20-rowed. Kernels clear white, deep, medium width, sweet and tender. Holds well in prime condition at eating stage.



GOLDEN EARLY MARKET

COUNTRY GENTLEMAN. 95 days. A late prolific variety of excellent quality, used widely by canners. Also desirable for home and market gardens for late crop. Stalks often with two ears. Kernels very deep, slender, sweet, with tender hull, and set irregularly without row formation.

BLACK MEXICAN. 90 days. Rightly popular for home and market garden use. Ears 8-rowed. Kernels tender, very sweet, white at eating stage, changing to blue-black at maturity.



TENDERGOLD
(Top Cross)

PRICES

Hybrid Corn, pkt., 10c; ¼ lb., 20c

SWEET CORN, HYBRID VARIETIES

	Days	POSTPAID			NOT POSTPAID	
		½ lb.	Lb.	5 lbs.	10 lbs.	25 lbs.
Early Golden Rocket.....	65	\$.35	\$.60	\$2.90	\$4.25	\$9.75
Spancross Improved.....	66	.30	.55	2.60	4.00	9.50
Marcross Northern	70	.30	.55	2.60	4.00	9.50
Iochief	80	.40	.70	2.90	4.70	10.50
Golden Cross Bantam.....	80	.30	.55	2.55	3.75	9.50
Golden Cross Bantam Elite	80	.30	.55	2.60	4.00	9.75
Tendergold	81	.30	.55	2.60	4.00	9.50
Golden Hybrid Jumbo.....	82	.35	.60	2.90	4.25	9.75
Bantam Evergreen Hybrid....	87	.30	.55	2.60	4.25	9.50

Standard Varieties, Pkts., 8c; ¼ lb., 15c

STANDARD VARIETIES

Early Golden Sweet.....	70	.25	.40	1.75	2.60	6.00
Golden Early Market.....	75	.25	.35	1.65	2.40	5.50
Early Golden Bantam.....	78	.20	.40	1.75	2.50	5.50
Golden Giant	88	.20	.35	1.50	2.25	4.90
Early Adams	80	.20	.35	1.10	1.65	4.00
Early Evergreen	90	.20	.40	1.75	2.35	5.50
Stowell's Evergreen	97	.20	.40	1.75	2.35	5.50
Country Gentleman	95	.20	.40	1.75	2.40	5.50
Black Mexican	90	.20	.40	1.70	2.30	5.00

CELERY

1 oz. for 5000 plants; ¼ lb. for an acre

SELF-BLANCHING OR GOLDEN VARIETIES

CULTURE: Golden Self-Blanching Varieties. For the early summer crop seed should be started in hotbeds the middle of March, and we suggest close attention, keeping the seed beds moist and giving plenty of air when the temperature is not too cold. Between the 1st and 20th of May plants should be transplanted in single rows 3 feet apart, or if in double rows 3½ feet apart; set the plants 8 to 10 inches apart in the rows. After the plants have started to grow frequent cultivation and watering are necessary but not an abundance of water at one time. Regular spraying or dusting against diseases should be started after the

plants reach a height of 10 inches, and continued until the crop is about ready for harvest.

GOLDEN SELF-BLANCHING (TALL STRAIN). The earliest and largest of the self-blanching varieties. Extensively used as a summer crop. Plants tall, 20 to 30 inches. Stalks medium thick, blanches very readily to a golden yellow color.

MASTERPIECE. Early self-blanching variety of superior quality and appearance.

PASCAL OR GREEN VARIETIES

CULTURE: Pascal and Utah Varieties. For earliest crop, to be ready for market or home use about July 15, seed should be sown indoors or in hotbeds around March 5th, and for later crops seed may be sown any time up to the last of April. Late seeding can be started in cold frames or even in beds out of doors. For early crop transplant to open ground or field about May 1st and for later crop transplanting can be successfully done as late as July 20th. Pascal is usually grown in single rows 30 to 36 inches apart and plants set 8 inches apart in rows or can be grown in double rows 3 to 3½ feet apart. Regular dusting or spraying is advisable. When the plants have about reached their growth, the stalks can be bleached by wrapping paper around each stalk while still growing in the field. However, many markets prefer unbleached but matured Pascal. For celery to be carried over after November 1st protection against freezing is necessary, which is done by placing the celery in trenches about 12 to 14 inches wide and deep enough so that when the field plants are taken up with plenty of roots and placed in the trench, just the very top leaves are above the ground. Time required to bleach depends upon how well matured the celery is when placed in the trench. Also on the temperature, the warmer the trench the faster celery bleaches.

EARLY TALL UTAH 10-B. The leading variety of Utah Pascal, produces a beautiful tall, erect, compact plant with long, rounded, thick, waxy stalks and full heart. Blanches readily.

SUMMER PASCAL or SUMMER QUEEN. Ours is the Waltham strain which has proven best. Plants 25 to 26 inches, erect, compact, full hearted; stems thick, rounded, smooth, waxy, brittle and of excellent quality. Blanches more readily than other large green varieties. No other strain of celery has met such great acceptance.

UTAH JUMBO GREEN PASCAL. A slow bolting, early but fast growing, tall variety of Utah Green Pascal. Plants grow large, compact with a good heart; stems long, thick, and broad. Seed we offer was grown in Utah by the originator.

HARTNER'S NEW STRAIN GIANT PASCAL. This strain is a careful selection of the delicious Colorado pascal. Plants are of medium height; have thick, large, well-rounded firm stalks of finest nutty flavor and crispness highly suited for both paper and trench blanching. Excellent keeper.

WEIRICH'S STRAIN PASCAL. (Colorado grown seed.) Plants large; stalks are medium length, thick and firm. An easy bleaching variety suitable for both papering and trenching, and free from soft stalks and seeders.

UTAH NO. 15. Plants are large; height 26 inches; erect, good heart. Stems 8 to 10 inches, broad, somewhat rounded and crisp. A very popular variety in Colorado and Northern sections.



CELERY*
PLANTS—
See
page
38.

UTAH NO. 15

ALL PRICES POSTPAID

CELERY, SELF-BLANCHING OR GOLDEN VARIETIES

	Days	Pkt.	½ oz.	Oz.	¼ lb.	Lb.
Golden Self-Blanching						
Tall Strain	85	\$.15	\$.60	\$.90	\$2.90	\$10.00
Masterpiece	86	.10	.45	.75	2.50	8.00

PASCAL OR GREEN VARIETIES

Giant Pascal	110	.10	.45	.80	2.50	8.00
Hartner's New Strain						
Giant Pascal	110	.20	1.60	3.00	8.75	28.00
Weirich's Strain Pascal.....	110	.20	1.60	3.00	8.75	28.00
Summer Pascal or						
Summer Queen	110	.20	.90	1.70	5.00	15.00
Utah Jumbo Green Heart..	125	.15	.75	1.25	3.75	14.00
Utah No 15 Full Heart.....	120	.10	.60	.95	3.25	12.00
Early Utah 10-B.....	115	.10	.60	.95	3.25	12.00

CUCUMBERS

1 oz. to 60 hills; 2 lbs. per acre in hills, 4 lbs. in drills



We catalog only the
Leading Varieties

MARKETER

CULTURE: Cucumbers prefer a heavy loam. After danger of frost has passed, plant the seed $\frac{3}{4}$ inch deep in rows 4 feet apart. Drill about 3 pounds seed to the acre and when plants have 4 or 5 leaves, thin to 1 plant every 18 inches. Can also be planted in hills 3 to 4 feet apart. Cultivate often and irrigate about once a week. Keep the cucumbers picked as fast as they reach the size desired. If fruits are allowed to remain on the vine, the vines cease to bear fruit.

SLICING VARIETIES

STAYS-GREEN (Black Diamond). 60 days. Extremely early, heavy yielder. Fruits 8 inches long, very dark green, retains its color long after picking. Splendid for shipping.

MARKETER. 65 days. Very popular because it is a very heavy yielder and early. Vines vigorous. Fruits 8 inches long, trim in appearance, tapered to each end. Very dark green in color. An attractive cucumber for early market.

CUBIT. 70 days. Of special merit. 8 inches long. Same type as Colorado, but with straight sides and round ends, dark green color which is well carried to blossom end. Very small seed space. Heavy yielder.

THE COLORADO. (Or A. and C.) 67 days. A beautiful long, slender, dark green cucumber commanding a premium on the critical markets. It has become exceedingly popular because of its excellent shape and intense color which is maintained longer than in any other variety. The fruit is inclined to taper, at the stem end. It is a vigorous, productive variety, highly resistant to unfavorable growing conditions.



NATIONAL PICKLING

STRAIGHT "8". 70 days. Is uniformly cylindrical, almost from end to end. Averages 8 inches long. Produces very few ill-shaped fruits. Desirable as a shipping variety.

IMPROVED LONG GREEN. 70 days. Excellent for home garden. Where a two-purpose variety is desirable it is suitable for pickling and dill size as well as slicing cucumbers. Hardy and prolific. Fruits deep green, straight, slightly tapered; flesh very white and crisp.

HYBRID CUCUMBER

For size, shape, quality, quantity and high resistance to disease, this cucumber is unequalled. Extremely vigorous, long-lived vines produce abundantly after others have ceased.

PICKLING VARIETIES

PRODUCER PICKLING. A new distinctive pickling variety bearing high per cent of female blossoms near the base of more compact vines resulting in earlier and heavier yields.

NATIONAL PICKLING. A late development by the National Pickle Association and is claimed to produce more pickles of uniform shape and size than any other variety. Is black spine type, rather blocky in form.

CHICAGO PICKLING. 59 days. Grown extensively for the large pickling establishments throughout the country. Fruit is medium, pointed at each end, deep green color.

GHERKIN WEST INDIA. Bears small cylindrical green fruits $1\frac{1}{2}$ inches in diameter covered with small elastic spines. Excellent as sweet pickles. Seed very small.

LEMON CUCUMBER—See Vine Peach, page 37.

For early cucumbers we
recommend Hotkaps.
See Page 95

		ALL PRICES POSTPAID					
CUCUMBERS, SLICING VARIETIES		Days	Pkt.	Oz.	$\frac{1}{4}$ lb.	$\frac{1}{2}$ lb.	Lb.
Stay-Green	60	\$.10		\$.20	\$.60	\$1.00	\$1.85
Marketer	65	.10		.25	.75	1.35	2.25
The Colorado	67	.10		.25	.70	1.25	2.25
Cubit	70	.10		.25	.75	1.35	2.35
Improved Long Green.....	70	.10		.20	.65	1.10	2.00
Straight "8".....	70	.10		.25	.70	1.20	2.25
Hybrid Cucumber	62	.25		4.00	11.00	18.00	35.00
PICKLING VARIETIES							
National Pickling	56	.10		.20	.65	1.10	1.85
Producer Pickling	55	.10		.25	.70	1.20	2.25
Chicago Pickling	59	.10		.20	.65	1.10	1.85
Gherkin West India.....	60	.10		.25	.75	1.35	2.35
Lemon Cucumber .....	....	.10		.20	.60	1.10	

DILL - EGGPLANT - ENDIVE - GARLIC

DILL



LONG ISLAND MAMMOTH

LONG ISLAND MAMMOTH. The best and largest dill. Leaves and stems used for flavoring, especially pickles. An easily grown annual. Early in May drill in rows 2 to 2½ feet apart. 1 oz. will plant 100 ft. Cultivate frequently until it starts to head, keep free from weeds.

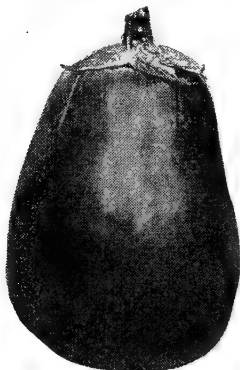
(Pkt. 10c) (oz. 20c)
(¼ lb. 50c) (lb. \$1.50).

EGGPLANT

1 oz. will produce about 1200 plants; ¼ lb. will plant an acre

CULTURE: A rich, sandy, warm soil produces the best plants and yields the highest number of fruits. Seed should be started indoors or in hotbeds sometime during February. Plants should be set out in the garden as soon as danger of frost has passed, in rows 3 feet apart, the plants 2 feet apart.

NEW HAMPSHIRE HYBRID. An early market variety. Bred to produce a good crop in short season areas. Fruits round to olive shape.



FLORIDA HIGH BUSH

BLACK BEAUTY. Plants 24 to 28 inches tall. Usually bears 4 to 6 large, broad to oval, rich dark purple firm fruit.

NEW YORK IMPROVED. A spineless purplish fruited variety. Vigorous grower and very productive. Fruit large oval, smooth and dark purple.

FLORIDA HIGH BUSH. Plants are large and up-standing in growth, bear fruit off of the ground. Fruits are elongated, cylindrical and purple in color. It is a heavy yielder and highly resistant to blight, and withstands dry weather very well.

EGGPLANT PLANTS. See page 38.

ENDIVE

1 oz. to 100 ft. of drill; 4 lbs. will plant an acre
CULTURE: For early crop, sow April 15th. For main crop, sow June 15th to July 10th. Sow seed in rows 12 to 24 inches apart and when well established, thin to 1 plant per 10 inches. When the plant reaches maturity the inner leaves start to blanch a creamy white; this can be hurried by tying the outer leaves together or covering the plant with litter.

GREEN CURLED RUFFEC. Best of green curled varieties an inch broad; midribs or stems are green to creamy white instead of pink; leaves are dark green, finely but deeply cut.

DEEP HEARTED FRINGE. Leaf type, is between Full Heart Batavian and Green Curled but more upright in growth than either forming extra deep, well filled hearts which blanch to a creamy yellow.

FULL HEART BATAVIAN (Escarolle). An improved Broad Leaved Batavian. Plants medium large with deep, full, compact, well-blanch heart of infolded broad leaves of buttery texture.

FENNEL

FENNEL (Finocchio). Plants 30 in. Grows similar to celery but forms oval bulb at base which is used like celery. Has sweet anise flavor. Sweet Fennel—See herbs.

GARLIC SETS

We have selected a lot of good, clear bulbs that will all grow. Those who are fond of this vegetable for flavoring can easily raise their own supply. Separate the bulb into cloves and plant 4 inches apart in rows.

(¼ lb. 20c) (1 lb. 55c) (5 lbs. \$2.25).

HERBS

ANISE. Annual; 14 inches, grow for aromatic seed. Used in flavoring. (Pkt. 10c) (½ oz. 25c) (oz. 40c).

BASIL. Annual; 12 inch leaves. Fragrant, somewhat spicy, used for seasoning. (Pkt. 10c) (½ oz. 20c) (oz. 35c).

BORAGE. Annual; leaves used in salads and drinks. Excellent for bees. (Pkt. 10c) (½ oz. 30c).

CARAWAY. Biennial; 18 inches, produces seed first year, used in flavoring bread, cakes, cheese, ets. (Pkt. 10c) (½ oz. 20c) (oz. 30c).

CATNIP. Perennial; 2½ feet, young leaves and shoots used for seasoning. Dried leaves for tea. (Pkt. 10c) (½ oz. 30c) (oz. 45c).

CHIVES. Perennial; member of onion family, used for flavoring. (Pkt. 10c) (½ oz. 30c) (oz. 50c).

ALL PRICES POSTPAID

EGGPLANT

	Days	Pkt.	½ oz.	Oz.	¼ lb.	Lb.
New Hampshire Hybrid.....	69	\$.10	\$.30	\$.50	\$1.60	\$6.00
Black Beauty	80	.10	.25	.45	1.50	5.50
New York Improved.....	83	.10	.25	.45	1.50	5.50
Florida High Bush.....	85	.10	.30	.50	1.60	6.00

ENDIVE

Green Curled Ruffec.....	76	\$.10	\$.15	\$.20	\$.60	\$2.00
Full Heart Batavian.....	72	.10	.15	.20	.60	2.00
Deep Heart Fringed.....	75	.10	.15	.20	.60	2.00

Herbs-Kale-Kohlrabi-Leek-Mustard

CORIANDER. Annual; 2 feet, seed chiefly used by packers and confectioners. Also used in medicine. (Pkt. 10c) (½ oz. 25c) (oz. 45c).

FENNEL SWEET. Perennial; seed used for flavoring confections and medicine. Leaves used in fish sauces. (Pkt. 10c) (½ oz. 30c).

HOREHOUND. Perennial; has strong aromatic odor, leaves used for seasoning; extract used in medicinal preparations. (Pkt. 10c) (½ oz. 20c) (oz. 30c).

MARJORAM SWEET. Perennial; of aromatic and pungent flavor, tender leaves used in seasoning. (Pkt. 10c) (½ oz. 30c) (oz. 45c).

ROSEMARY. Perennial; has warm bitter flavor, leaves used in seasoning. (Pkt. 10c) (¼ oz. 30c) (oz. 45c).

SAGE, BROADLEAVED. Used in dressing, sausage, etc. When once started will last for years. Should be in every garden. Sow in the open ground. Thin to six inches apart. (Pkt. 15c) (½ oz. 30c) (oz. 50c).

SAGE PLANTS. See page 38.

SAVORY. Annual; 10 inch leaves and shoots used for seasoning. (Pkt. 10c) (½ oz. 20c) (oz. 30c).

THYME, BROADLEAVED. Perennial; used for seasoning, also used as tea for nervous headache. (Pkt. 15c) (½ oz. 40c).

MIXTURE ANNUAL HERBS. (Large Packet 15c).

MIXTURE PERENNIAL HERBS. (Large Packet 15c).

HORSERADISH SETS

See page 38.

KOHLRABI

1 oz. will sow 200 ft.; 4 lbs. will sow an acre.

CULTURE: This vegetable, when young, is fine for table use. Combines the flavor of both cabbage and turnips. For early crop, sow in hotbeds, transplant, and cultivate like early cabbage. For winter use, sow in rows in the middle of June or first of July, transplanting or thinning to 8 inches apart.

WHITE VIENNA

EARLY WHITE VIENNA. 55 to 60 days. Skin light green, flesh white, leaves smooth and short. Well adapted to forcing.

(Pkt. 10c) (oz. 35c) (¼ lb. 90c) (lb. \$3.00).

KALE

1 ounce to 200 ft.; 4 lbs. to an acre

CULTURE: Sow seed in May in rows 2 feet apart and thin to 10 to 18 inches apart. Withstands a great deal of frost.

DWARF GREEN CURLED. Very hardy. Plants 12 to 15 inches tall with 30 inch spread. Compact.

leaves plume-like, finely curled, deep yellowish-green.

(Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.75).

DWARF BLUE CURLED (Norfolk). Similar to Dwarf Green Curled except in color which is a blue-green.

(Pkt. 10c) (oz. 20c) (¼ lb. 50c) (lb. \$1.75).

LEEK

1 oz. will sow 100 ft.; 4 lbs. will sow an acre



MONSTROUS
CARENTAN

A species of onion which does not form a bulb, but is used for its mild, delicious root stem or neck. It is much sweeter and milder than the onion, being used mostly for flavoring where the onion taste is desired, or it can be boiled the same as boiling onions and served with butter and seasoning.

AMERICAN FLAG. A well-known, hardy, strong growing and producing long white stalks.

MONSTROUS CARENTAN.

Stems are large and white. Of very good flavor.

Either above varieties: (Pkt. 10c) (½ oz. 25c) (¼ lb. \$1.50) (lb. \$4.75).

MUSTARD

1 oz. to 100 ft.; 1 lb. drilled to acre, 2 lbs. broadcast
CULTURE: The leaves are used as a salad or may be boiled like spinach. Sow seed very shallow in any good garden soil early in the spring, in rows 1½ to 2 feet apart or seed can be broadcast in beds. Several sowings a week or so apart give tender leaves throughout the season.

SOUTHERN GIANT CURLED, LONG STANDING.

Will remain in field longer than regular Southern Curled before bolting to seed. Most popular for greens. Leaves long and wide, light green, tinged with yellow, heavily crumpled and curled at the edges.

OSTRICH PLUME or FORDHOOK FANCY. Upright-growing, mild variety, slow to bolt to seed stalks; leaves bright green, plume-like and deeply fringed on the edges.

FLORIDA BROADLEAF. A vigorous, large, smooth leaved, long standing variety, good edible qualities.

TENDERGREEN or SPINACH MUSTARD. Quick growing, fine, tender mustard, with spinach flavor. Leaves oblong, broad, fairly smooth.

ALL PRICES POSTPAID

MUSTARD

	Days	Pkt.	Oz.	¼ lb.	½ lb.	Lb.
Southern Giant Curled, Long Standing.....	60	\$.08	\$.15	\$.45	\$.70	\$1.25
Ostrich Plume or Fordhook Fancy.....	50	.08	.15	.45	.70	1.25
Florida Broadleaf	50	.08	.15	.45	.70	1.25
Tendergreen or Spinach Mustard.....	46	.08	.15	.45	.70	1.25

LETTUCE

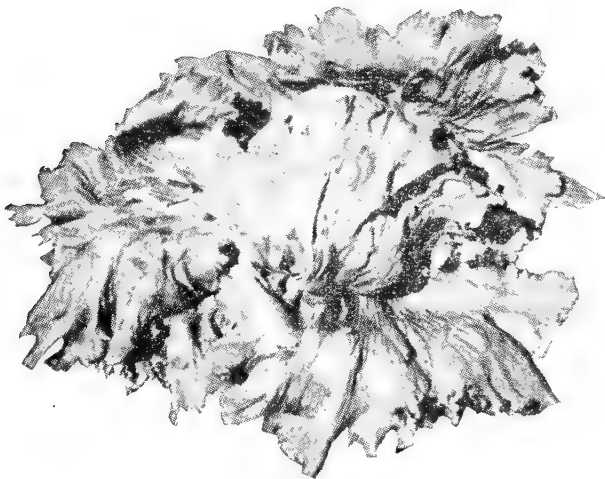
ICEBERG VARIETIES

1 oz. for 2000 plants or 100 ft. of drill;
1 to 2 lbs. per acre

CULTURE: It is not difficult to grow good head lettuce, but it is necessary to first have good seed of the proper variety and suited to your conditions. Also necessary is good soil and water so as to insure steady growth from the time the seeds are planted until the heads are ready to use. Unless the soil is rich, we recommend liberal amount of manure or commercial fertilizer.

For large acreage, the most successful and best way is to plant 2 rows of beds 16 inches wide and 6 inches high with 24 inches between the beds for irrigation ditch or can be planted in single rows 20 inches apart. Two weeks after it comes up it is usually large enough to be thinned to single plants to a distance of at least 14 inches. Keep crop clean of weeds at all times. Cultivate thoroughly but not deep. Ground should not become dry but care must be used in irrigating.

In the past few years the development and introduction of new varieties has been so fast that but few seed houses or planters have been able to keep up with the progress. We have devoted a large acreage in the mountains of Colorado—on our farm south of Denver; also in Arizona and California, to the trials and development of new varieties and strains. We carry in stock and offer to our customers only those varieties which we have found best.



PREMIER or EARLY GREAT LAKES

PREMIER GREAT LAKES—EARLY GREAT LAKES.

80 days. Selected from a single plant for earliness, smoothness, lack of ribbiness and uniformity of heading. Outer leaves not as crinkled as regular Great Lakes. Slightly gray green in color. Heads well rounded with smooth base and small ribs. Yield a very high per cent of marketable heads. In one year it has become popular especially for planting in Rocky Mountain area.

IMPROVED GREAT LAKES. 85 days. Medium early strain selected for it is resistant to tipburn and sun heat; bright green color; large outer leaves that stand erect and protect the large, well rounded firm to solid heads. Produces a high per cent of solid heads in warm weather.

GREAT LAKES—LATE or MAIN CROP STRAIN.

90 days. This variety is the most universally planted as due to its resistance to tipburn, etc., it produces a very high per cent of large, uniform, round heads well covered with dark green, large, heavily fringed outer leaves.

NEW YORK PW 55. One of the surest heading varieties and unusually resistant to tipburn and slime. It is the result of many years of selection. Both in summer and fall will produce a high percentage of beautiful hard, symmetrical, well-rounded heads but somewhat small unless grown on good, fairly rich soil.

IMPERIAL 411. An early Imperial strain has proven very satisfactory especially when grown for early crop to harvest in May and early in June. Also can be planted in early July for fall crop. Produces a heavy crop of fine solid heads but will not stand in field very long after it is matured.

IMPERIAL 815. A sturdy, robust strain selected from 847. One of the best strains for Colorado but must be grown with care as it is a tight header and if weather is hot may tipburn and slime. Will not stand long in the field when ready to harvest. We recommend at least 2 or 3 cuttings. Don't wait until the entire crop has matured. It produces a surprisingly high per cent of No. 1 heads which are large, solid and of fine appearance. Likes frequent and light waterings. Best suited for early summer and late fall crops.

NEW YORK 315. An excellent strain of New York for mountain, high altitude crops as it is a good header and slow to tipburn and bolt to seed. A rapid grower; heads large, well formed and slow to slime. At heading time it likes liberal amount of water.

IMPERIAL 44. Heads medium large, slightly flattened, compact, one of the best hot, dry weather varieties, used extensively in the East and in Arizona for an early crop.

PROGRESS. A new variety crossed with Imperial No. 44 which has proven very favorable and fitted to western climatic conditions, but does not meet adversities like Great Lakes. Produces a high percentage of marketable heads which are medium large, well formed, and not as rough as Great Lakes. Leaves, thick, dark green, and heavily curled.

IMPERIAL 847. Heads uniform, good size; solid and usually round. Does unusually well in cool weather.

CORNELL 456. Adapted for growing on muck soils; similar to Great Lakes except slightly smaller and of lighter green color.

NEW YORK 199. An early variety; resistant to tipburn. Heads medium large, compact, attractive.

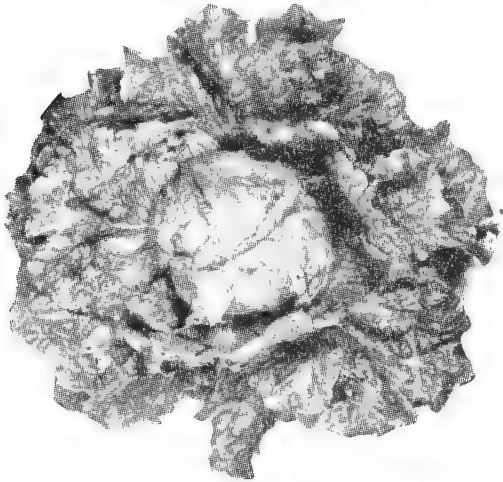
NEW YORK 12. An early variety; heads light green, rather flat.

NEW YORK 515 IMPROVED. Similar to New York 12 in habits and type of plant, but produces a larger percentage of marketable heads. Especially suited for warm weather.

IMPERIAL 152. Especially adapted to Arizona and California for fall crops, but for Colorado and all the Rocky Mountain region we found 815 a better sort. No. 152 produces large yields of good solid, fine appearing heads, but is quick to slime in hot weather.

LETTUCE

IMPERIAL 615. A variety that does best in cool weather. Withstands frost and cold better than other varieties, not especially recommended for Colorado but does well in Arizona and California during the winter months.



EARLY 815

LEAF AND OTHER VARIETIES

CULTURE: Growing of the loose heading varieties is much the same as the New York varieties but much easier to grow. However, sow in 15-inch rows and thin the leaf varieties to 4 inches apart and the Big Boston to 7 inches apart as soon as a few leaves are formed. For an early crop plants can be sown in hotbeds and transplanted to the open field.

ROMAINE or TRIANON, COS. Much esteemed for its fresh crispness. Leaves are long, smooth, narrow, spoon-shaped, folding into loose heads. Culture the same as other lettuces.

HANSON. A very fine large semi-heading variety; leaves curled on the edges; light yellowish green. Crisp and brittle; very fine flavor; very best home garden variety.

GRAND RAPIDS. Most extensively used leaf lettuce. Plants upright. Leaves light green, large, broad, much waved and frilled. Does not form a head.

GRAND RAPIDS TIPBURN RESISTANT, WASHINGTON STRAIN. A new introduction. Recommended for greenhouse culture. Tipburn resistant under glass; however, does well outdoors. Heavier in structure and slower to seed than regular Grand Rapids.

BLACK SEEDED SIMPSON. Withstands summer heat better than other varieties. Plants large, attractive, compact, with broad, light green leaves crumpled and frilled on the edges; crisp and tender.

OAK LEAF. An old variety but of late has become very popular for home gardens. Leaves are rich dark green, lacerated and tender, withstands hot weather.

BIBB. The most palatable lettuce. A very dark green butter-head variety; rather small, loosely headed; leaves smooth with thick main rib; excellent quality. Does best if planted early.

PRIZE HEAD. A large, loose-headed variety, leaves large, very curly, bright green tinted on edges with reddish brown; very crisp, sweet and tender. Desirable for home garden.

ALL PRICES POSTPAID

LETTUCE, ICEBERG VARIETIES

	Days	Pkt.	½ oz.	Oz.	¼ lb.	Lb.	5 lbs.
Great Lakes	89	\$.10	\$.30	\$.50	\$1.50	\$4.50	\$19.00
Improved Great Lakes.....	88	.15	.30	.50	1.60	4.75	20.00
Premier Great Lakes Early.....	83	.15	.30	.50	1.60	4.75	20.00
New York PW 55.....	83	.10	.25	.45	1.25	3.75	18.00
Imperial 411	82	.10	.25	.40	1.00	3.25	15.25
Imperial 815	84	.10	.20	.35	1.00	3.25	15.25
New York 315.....	85	.10	.20	.35	1.00	3.35	15.45
Imperial 44	82	.10	.20	.40	1.00	3.00	14.00
Progress	85	.15	.35	.55	1.65	4.75	20.00
Imperial 847	84	.10	.20	.35	1.00	3.00	14.00
Cornell 456	83	.10	.25	.40	1.40	4.25	19.50
New York 199.....	85	.10	.20	.35	1.00	3.35	15.40
New York 12.....	85	.10	.15	.30	.80	2.75	12.50
New York 515 Improved	85	.10	.20	.35	.90	3.00	13.75
Imperial 152	87	.10	.20	.30	.90	2.75	13.25
Imperial 615	88	.10	.20	.30	.80	3.00	13.50

LEAF AND OTHER VARIETIES

Hanson	80	.10	.12	.20	.60	2.00	
Grand Rapids	45	.10	.12	.20	.60	2.00	
Grand Rapids Tipburn Resistant.....	45	.10	.12	.20	.60	2.10	
Oak Leaf	43	.10	.20	.30	.70	2.25	
Bibb	60	.10	.20	.30	.70	2.25	
Prize Head	46	.10	.12	.20	.60	2.00	
Black Seeded Simpson.....	46	.10	.12	.20	.60	2.00	
Romaine or Trianon, Cos.....	66	.10	.12	.20	.65	2.15	

ONIONS

1 oz. will sow 100 ft.; 4 to 5 lbs. for an acre

CULTURE: A crop of onions can be grown on any good soil but of course with fertilizer better results will be obtained. Ground should be well worked and pulverized, allowing no lumps or trash to mar the surface. The seed can be sown in the spring, just as soon as the ground can be prepared, as onion seed will germinate in cool weather. Sow about 1/4 inch deep and in rows 12 to 16 inches apart. After they show an inch or two above the ground give them a good light hoeing, after which weeding must be done, and must be repeated whenever weeds appear until the tops lie down, then they should be topped and the bulbs allowed to dry before sacking. For extra large bulbs, thin out gradually so that they stand 3 to 4 inches apart. For real early onions sow seeds indoors in early February and transplant to field in April.

YELLOW VARIETIES

GRANO or EARLY YELLOW BABOSA. The earliest onion used instead of Bermuda as better keeper and more productive. Bulbs top shaped. Flesh white straw colored skin.

SWEET SPANISH, PIETERS-WHEELER STRAIN. A carefully developed and selected strain of the Utah Sweet Spanish. Considered by most large experienced onion growers as the top commercial strain because it produces very uniform large bulbs of good dark golden color; globe in shape; flesh is firm and of mild flavor. Especially desired as from this strain very few doubles and thick necks are produced.

SWEET SPANISH COLORADO NO. 6 SELECTED. Developed by the Colorado Experiment Station. Uniform, rounded, firm bulbs with a heavy protecting deep yellow bronze skin. We have a strain that matures well, has small neck, good keeper, heavy yielder.

SWEET SPANISH, UTAH JUMBO. This seed is the result of year after year careful selection of the largest and finest bulbs of Utah Yellow Sweet Spanish so as to get size and uniformity. We recommend it to the most critical growers.

WINEGAR'S CERTIFIED YELLOW SWEET SPANISH (Utah Strain). This is the result of over 20 years of continued selection by Mr. Winegar and his father and with strict supervision of Utah State Improvement Association. Bulbs are selected for uniformity and keeping qualities, large size,



**SWEET SPANISH
WINEGAR'S CERTIFIED UTAH STRAIN**

globular shape having heavy dark skin; firm flesh. Sold only in sealed bags.

AUSTRALIAN BROWN. An excellent keeping variety, bulbs chestnut brown, semiglobular with tight fitting skin. Used largely for sets.

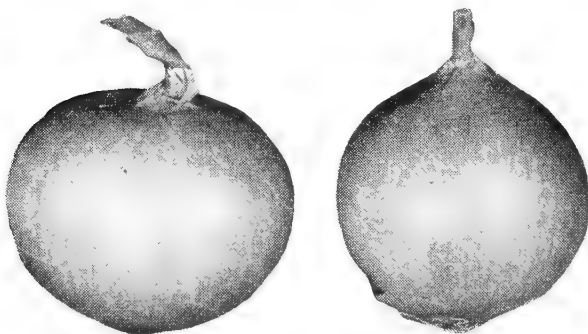
MOUNTAIN DANVERS. (Colorado Grown.) This variety of Danvers developed in the mountains of western Colorado. Matures practically all the crop at once. Color is a beautiful dark yellow, shading to brown. It is an excellent keeper and shows less shrinkage than any other variety. The bulbs are three-quarters round, hard, with thick, heavy clinging skin. Our seed is grown from selected bulbs in the high altitudes of western Colorado.

EARLY YELLOW GLOBE. A fine, medium large, almost globe shaped onion. Solid, uniform with attractive yellow skin. 10 days earlier than Yellow Globe Danvers. Keeps well.

YELLOW GLOBE DANVERS. 112 to 114 days. A popular strain of Yellow Globe and most widely known. A good cropper, medium late, hardy; used largely for storage. Bulbs medium large, round, yellow, firm, solid with small neck. Flesh white, with slight yellow tone.

EBENEZER. An excellent variety for producing sets of exceptional keeping qualities. Bulbs are medium size, thick and flat, dark yellow, very firm with thick skin.

YELLOW BERMUDA. Very early, bulbs medium sized, flat, skin straw colored, flesh nearly white Sweet and mild.



MOUNTAIN DANVERS

ONIONS

WHITE VARIETIES

BABOSA or WHITE GRANO. Earlier, better keeper and heavier yielder than Crystal Wax. Bulbs large, top-shaped. Flesh white, firm, and mild.

WHITE SWEET SPANISH (Original). This is a selection from the Yellow Sweet Spanish and produce almost 98% pure white bulbs.

DRAKOS WHITE SWEET SPANISH JUMBO CERTIFIED. This strain was developed in Utah and is the result of a continuous careful selection which has proven after five years to be not only the earliest but the best keeping of the White Sweet Spanish. Neck small; uniform bulb with clear, glistening, white, thick skin almost free of green tint and necks. Our seed was produced by originator. We also can supply non-certified seed of top quality also produced by the originator, Mr. Drakos.

WHITE SWEET SPANISH CALIFORNIA JUMBO.

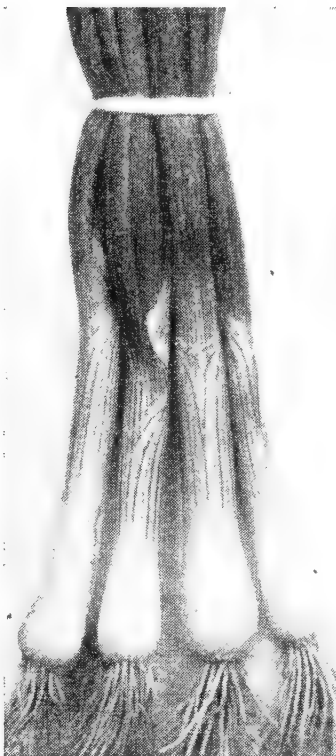
This new selection of Jumbo White Sweet Spanish yields the largest bulbs which are uniformly globe-shaped with small neck. Pure white skin and flesh. An exceptionally heavy yielder of large onions.

EXTRA EARLY WHITE BARLETTA (Imported Seed).

The most popular onion for pickling. If seed is sown thick will produce small marble-size crystal white bulbs, firm and mild; also makes excellent table onion if pulled early.

WHITE PORTUGAL. An all purpose variety. Excellent when young as a table or bunching onion also as a boiler; if planted very close makes small pickling onion and sets. If allowed to mature produces medium size, flat but fairly deep, pure white bulbs; flesh fine grained and firm. Splendid keeper.

SOUTHPORT WHITE GLOBE. The best keeping white variety. Bulbs are round, medium size, solid pure white and very attractive. The skin is thin, flesh fine grained and moderately mild. Also used as a bunching or table onion.



WHITE LISBON

CRYSTAL WHITE WAX. A pure white variety, very flat early. Medium-sized, clear white, very mild. These are the white onions we see in our markets in early spring.

WHITE LISBON BUNCHING (Imported Seed).

This is a very popular variety in Rocky Mountain area. Also planted very extensively in Europe. It is grown almost exclusively for table or green onions, for it produces long, slender stems, almost pure white from the root ends to the leaves or tops and is slow to form a bulb.

Write for Prices for
Larger Amounts

ALL PRICES POSTPAID

ONIONS, YELLOW VARIETIES

	Days	Pkt.	1/2 oz.	Oz.	1/4 lb.	Lb.	5 lbs.
Grano or Early Yellow Babosa.....	98	\$.10	\$.25	\$.40	\$1.10	\$4.25	\$20.00
Sweet Spanish, Pieters-Wheeler Strain....	112	.10	.25	.40	1.20	4.50	21.00
Sweet Spanish, Colorado No. 6 Selected....	120	.10	.25	.40	1.00	4.00	19.00
Sweet Spanish, Utah Jumbo.....	118	.10	.25	.40	1.10	4.25	20.00
Sweet Spanish, Regular Utah Strain.....	115	.10	.25	.40	1.00	4.00	19.00
Winegar's Certified Yellow Sweet Spanish	115	.15	.40	.70	2.15	7.00	33.00
Australian Brown	100	.10	.20	.35	1.00	3.40	14.00
Mountain Danvers	105	.10	.25	.40	1.10	3.75	16.25
Early Yellow Globe	112	.10	.20	.35	1.00	3.50	14.25
Yellow Globe Danvers.....	114	.10	.20	.35	1.00	3.50	14.25
Ebenezer	102	.10	.20	.30	.90	3.00	13.00
Yellow Bermuda	93	.10	.25	.40	.90	3.25	15.25

WHITE VARIETIES

Babosa or White Grano.....	90	.10	.25	.40	1.10	4.50	20.00
White Sweet Spanish.....	110	.10	.25	.40	1.10	4.50	20.00
Jumbo White Sweet Spanish.....	115	.12	.35	.50	1.60	5.50	24.75
Drakos Jumbo White Sweet							
Spanish Certified	112	.15	.50	.75	2.35	8.00	38.75
Drakos Jumbo White Sweet Spanish.....	112	.12	.35	.55	1.70	6.00	28.00
Extra Early White Barletta (Imported).....	90	.10	.25	.40	1.20	4.00	20.00
White Portugal	100	.10	.25	.40	1.20	4.00	17.50
Southport White Globe.....	115	.10	.25	.40	1.20	4.00	19.50
Crystal White Wax.....	95	.10	.25	.40	1.40	4.00	17.00
White Lisbon Bunching (Imported).....		.10	.25	.40	1.10	3.60	16.00
Long White Bunching.....		.10	.25	.40	1.10	3.65	16.00

ONION PLANTS

For very early onions and localities where the season is short and onions cannot be grown from field planted seed, but they can be produced from plants. The onion plants offered below are field grown in the Rio Grande Valley in Texas. We endeavor through frequent shipments to keep them as fresh as possible.

Prices by Parcel Post, Prepaid	100	1,000
Sweet Spanish, Yellow and/or White....	\$.30	\$2.00
White Bermuda (straw color).....	.25	2.00
Crystal White Wax, Bermuda.....	.25	2.00

Ask for Special Price on Crate Lots.

ONION SETS—Colorado Grown

One quart of onion sets will weigh 1 pound; 32 pounds to bushel. Sets when planted will produce good green or table onions much earlier than if grown from seed. If allowed to remain in the ground, will yield fine large onions for market or for household use 4 weeks earlier than if planted from seed.

PRICES POSTPAID	Qt.	4 qts.	8 qts.
Brown Australian			
Sets, bottom	\$.35	\$1.20	\$2.25
White Silverskin			
Sets, bottom .....	.35	1.25	2.40
Red Wethersfield			
Sets, bottom .....	.35	1.20	2.25

Write for prices on bushel lots.

SPECIAL: 1 qt. each of Red, Brown and White Onion sets, postpaid, 95c.



PARSNIPS

OKRA or GUMBO

1 oz. will sow 150 ft.; 4 to 5 lbs. required for an acre

CULTURE: Parsnips grow best in a loose, rich sandy loam, but will make good roots in any soil that is reasonably rich and deep. Sown as early as practicable in rows 2 to 2½ feet apart and after plants are 3 to 4 inches high thin to 3 inches apart. Keep the ground well worked and fairly moist. Parsnips are improved by freezing, and a portion of the crop can be left in the ground all winter.

ALL AMERICAN. Roots large and broad-shouldered of medium length, fine texture, white color and small core with very few side roots.

HOLLOW CROWN or GUERNSEY. Roots are 12 to 15 inches long; 2½ to 3 inches thick at the shoulder. Tapered uniformly to the tip. Smooth, easily taken from the ground. Flesh fine grained, and good quality.



ALL AMERICAN

CULTURE: When the ground has become warm, sow thickly in drills 3 feet apart, and when large enough thin out to a foot apart in the rows. One ounce will sow 30 feet of drill.

DWARF GREEN. Selected earliest variety and very productive. Plants dwarf, 2½ feet high; sturdy and well blanching pods, 4 to 4 ½ inches long; tender and fleshy.

TALL or PERKINS MAMMOTH. The long, green-colored pods, measuring 5 and 6 inches long, are produced in great quantities.

WHITE VELVET. The large pods are perfectly round, smooth, velvety white. Plant is dwarf, of compact branching growth and very prolific.

CLEMSON SPINELESS. A very uniform spineless strain of Perkins long podded type. Plants have less foliage, 3½ to 4 feet tall. Pods rich green, moderately ridged and straight.

ALL PRICES POSTPAID						
PARSNIPS	Days	Pkt.	Oz.	¼ lb.	Lb.	5 lbs.
All American	95	\$.10	\$.17	\$.45	\$1.50	\$7.00
Hollow Crown	95	.10	.17	.45	1.40	6.80
OKRA OR GUMBO	Days	Pkt.	Oz.	¼ lb.	½ lb.	Lb.
Dwarf Green	60	\$.10	\$.15	\$.40	\$.70	\$1.30
Tall or Perkins Mammoth.....	62	.10	.15	.40	.70	1.25
White Velvet	60	.10	.15	.40	.70	1.25
Clemson Spineless	58	.10	.15	.40	.70	1.25

PARSLEY

1 oz. will sow 100 ft.; 2½ lbs. will sow an acre

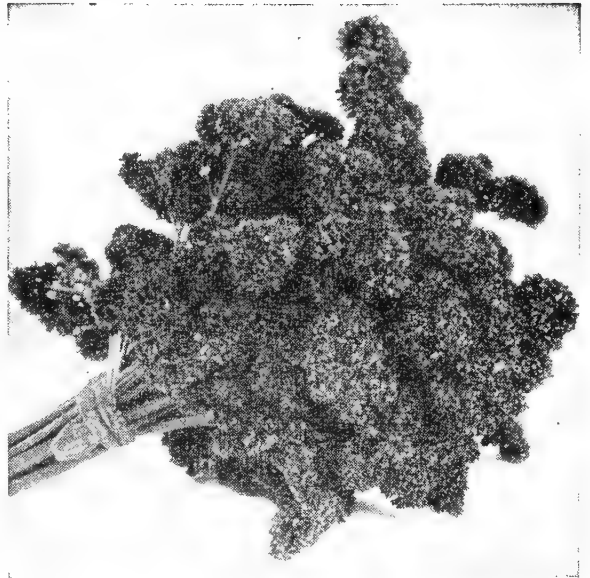
CULTURE: Parsley seed is very slow to germinate, so plant the seed very early in the year, January is not too early. Have ground free from lumps and sticks. Sow in rows 1 foot apart or broadcast. Cover seed firmly ¼ inch deep. With Hamburg Rooted parsley, broadcasting is best and thin to 8 inches apart each way.

MOSS CURLED or TRIPLE CURLED. Beautifully crimped, curled leaves. The color is rich green. Its pleasant aromatic flavor is unsurpassed.

PARAMOUNT. This new introduction was given the All-American award as being the best in its class. Leaves are finely curled, good size, dark green color. Borne on strong, medium length stems.

NEW DARK GREEN PLAIN LEAVED. The leaves of this variety are dark green, borne on strong stems; are flat, deeply cut and not curled. Esteemed by many because it has a stronger flavor than other sorts.

HAMBURG ROOTED or GERMAN PARSLEY. Roots resemble small parsnips and are used as a vegetable, same as salsify. Foliage same as plain parsley.



PARAMOUNT

ALL PRICES POSTPAID

PARSLEY

	Days	Pkt.	Oz.	¼ lb.	Lb.
Moss Curled or Triple Curled.....	75	\$.05	\$.15	\$.45	\$1.45
Paramount	85	.05	.15	.45	1.50
Dark Green Plain Leaved.....	80	.07	.20	.50	1.75
Hamburg Rooted or German Parsley.....	90	.05	.15	.45	1.50

SEED POTATOES

CULTURE: Potatoes can be grown in any soil provided it is fairly rich, but potatoes usually do best on loose, sandy loam and are of better quality than if planted on heavy clay soil. Cut the potatoes in 4 or 6 pieces, so there is at least one eye on each piece. About 3 pieces should be planted in each hill, 3 to 4 inches deep, according to the time of planting, in rows 3 feet apart and 16 to 18 inches apart in the rows. Keep the ground loose about the hills. Do not water unless soil becomes quite dry. For Psyllid or Purple Top dust with Sulphur. For worms use Basic Copper Arsenite or DDT containing 5% Cuproclde.

PRICES (NOT POSTPAID)	5 lbs.	10 lbs.
Irish Cobbler or Eureka.....	\$.40	\$.60
Bliss Triumphs .....	.40	.60
Red McClure or Peachblow.....	.40	.60
Russet Burbank or Nettle Gem.....	.40	.60
Katahdin .....	.40	.60

RED MCCLURE or PERFECT PEACHBLOW. Probably most popular variety in the state. Round red tubers. Late in maturing. Vine strong, upright. Will not succeed in heavy soils or hot climate.

RUSSET BURBANK; NETTED GEM; IDAHO RUSSETS. Require fertile soil and even moisture. Will not tolerate heavy soils or hot weather. Succeeds best at altitudes 6,000 to 8,000 feet. Medium size vine. Tubers cylindrical in shape; shallow eyes.

IRISH COBBLERS or EUREKA. Early white variety. Vines somewhat small and erect. Tubers irregu-

lar, tending to roundness, keep well in storage. It is quite resistant to mosaic.

BLISS TRIUMPH. Leading variety in state and gaining in popularity. Succeeds in all potato districts in state. Round, red variety.

KATAHDIN. Result of breeding program of U. S. Department of Agriculture. Resistant to mild mosaic. Vines strong, upright. Tubers cream-colored, short oval to roundish, with few very shallow eyes. Very heavy yielder.

POTATO EYES BY MAIL

(8,000 to 12,000 Eyes to Acre)

We send potato eyes delivered, all transportation charges paid. We select the seed potatoes, using only the smoothest and the firmest. Then we remove the eyes, leaving enough flesh to assure a good plant that will produce potatoes. We guarantee these potato eyes to arrive in good planting condition. But we advise that you prepare your soil and have things ready for planting on arrival of the eyes.

Any variety listed, postpaid (25 eyes, 40c) (50 eyes, 75c) (100 eyes, \$1.00) (300 eyes, \$2.50) (500 eyes, \$3.95).

When ordering be sure to advise when you wish eyes to reach you.

SWEET POTATO PLANTS

See page 38.

PEAS

One pound will sow 60 ft., 80 to 100 lbs. will sow an acre

CULTURE: Peas require moderate temperature, plenty of moisture and good, fairly rich soil. The earliest crop can be planted when the ground is ready to work and later plantings can be made which will give you fresh peas all summer long, especially if you are growing them in the higher altitudes where the summers are cool. Dwarf or short vine peas are best suited where space is scarce and soil very rich. Can be sown in single or double rows with about 2 inches between the seeds and rows of 1½ to 2½ feet apart. The seed should be planted about 1 inch to 1½ inches under the surface.

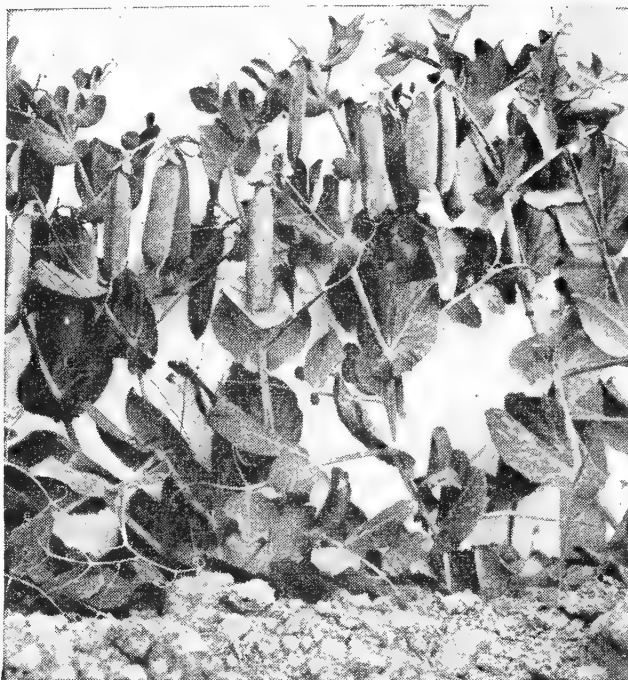
ALASKA. 60 days. Vines slender, light green, 30 inches high. Pods single, 3 inches long, blunt, light green, round, straight. Seeds small, round, smooth, bluish green. Can be planted very early.

AMERICAN WONDER. 61 days. For home garden very productive. Vines 12 to 14 inches high, dark green, fairly coarse. Pods 2¾ inches long straight and well filled. Of fine quality.

LAXTON'S PROGRESS. 63 days. The earliest large podded shipping variety, pods well filled, 4½ inches long, dark green vines grow 18 inches tall. Excellent for home garden and shipping.

LAXTONIAN. 64 days. Vines short, dark green. Bears abundance of 4½-inch well filled pods.

LITTLE MARVEL. 65 days. On account of its exceptional fine quality and yield the most popular and most used of the early dwarf varieties. Valuable for home gardening. Pods 3 inches long, dark green. Very sweet.



LITTLE MARVEL

EARLY GIANT. 68 days. The earliest of all the large podded market garden peas. The vine is 22 inches and is very dark and heavy. The pods are about 5 inches long and very dark green, pointed, plump and round. Recommended for home and market gardeners.

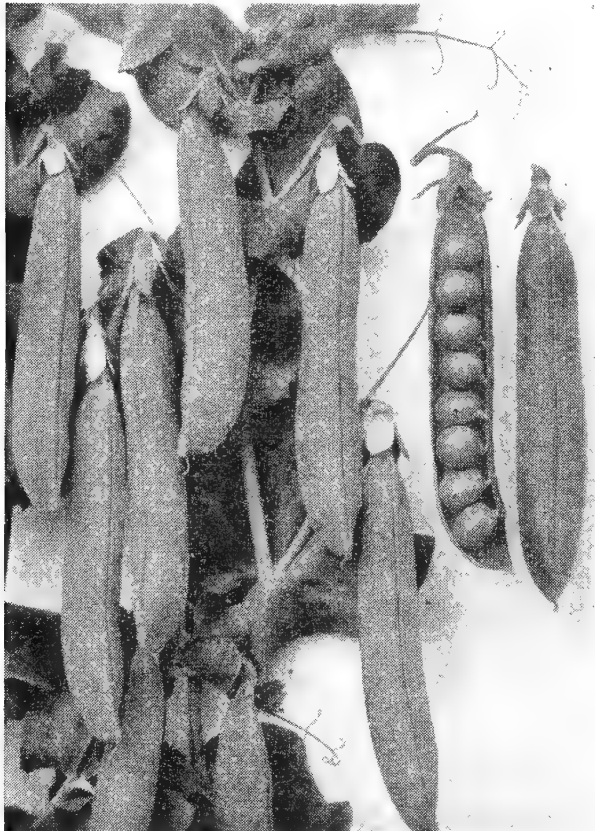
ROGER'S DWARF MARKET. 72 days. A new, fine shipping variety. Vines grow 28 inches tall, and a very heavy producer of large well filled fine appearing pods, which will shell out more peas per pound than any other large variety.

GIANT STRIDE ROGERS NO. 95. 75 days. Vines are vigorous, 27 inches tall, wilt resistant. Pods 4½ to 5¼ inches, plump and dark green. Heavy yielder.

GIANT STRIDE ASGROW NO. 40. 75 days. Vines dark green, stocky, branching. Pods 5 inches, round, dark green, plump, pointed. Contain 8 to 10 large succulent peas. Wilt resistant.

GIANT STRIDE MAFFEL. 75 days. More of this strain of Giant Stride is planted in Colorado than any other. Vines are sturdy, heavy, bearing pods mostly 5 inches. Heavy yielder.

DARK DWARF TELEPHONE. 76 days. Pods are very dark; little longer than the Stratagem, 4¾ inches; heavy yielder. Vines dwarf, sturdy and have heavier stems.



GIANT STRIDE

PEAS

IMPROVED STRATAGEM. (Gold Seal Quality). 78 days. Very popular in the mountains and it is a very hardy and a very heavy yielder, of fine well-filled pods which measure about 4½ inches long. Vines are dwarf, grow 2½ inches to 3 feet high.

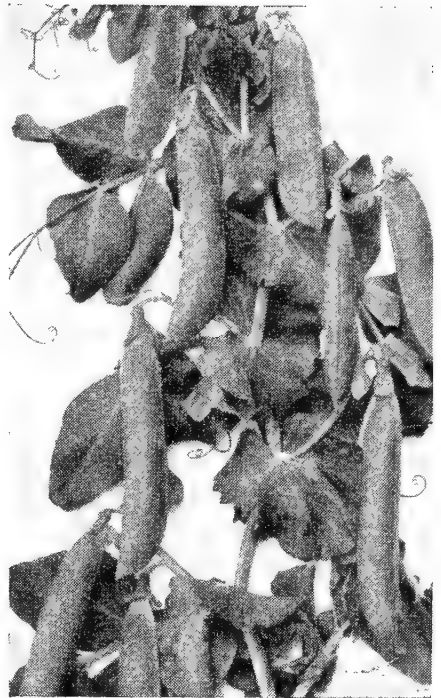
ALDERMAN. 74 days. A handsome, large podded, late variety for home gardens and freezing. Plants tall, dark green. Pods large, plump, contain 8 to 10 peas of highest quality.

THOMAS LAXTON. 64 days. An excellent all purpose variety especially for home garden and freezing. Vines 30 inches. Pods 3½ to 4 inches; well filled of high quality large peas.

FREEZONIAN. 65 days. Specially developed for quick freezing. Vines dark green, 30 inches tall; pods 3½ inches. Peas large and sweet. Also a good garden variety.

EVERBEARING PEAS. 78 days. Grows about 36 inches high; pods are about 3 inches long, of very fine quality. A constant and heavy bearer.

DWARF GRAY SUGAR. 65 days. A double purpose pea; the pods when half grown are excellent cooked the same as snap beans or later can be used as shelled peas. Vines slender and wiry. Pods fleshy, of good eating quality.



EARLY GIANT

ALL PRICES POSTPAID

	Days	Pkt.	¼ lb.	Lb.	5 lbs.	10 lbs.
Alaska	60	\$.08	\$.12	\$.35	\$1.35	\$2.50
American Wonder	61	.08	.15	.45	1.45	3.00
Laxton's Progress	63	.08	.15	.45	1.75	3.25
Laxtonian	64	.08	.15	.40	1.60	3.00
Little Marvel	65	.08	.15	.45	1.80	3.40
Early Giant	68	.08	.15	.50	1.90	3.30
Rogers Dwarf Market.....	72	.08	.15	.50	1.80	3.20
Giant Stride Rogers No. 95.....	74	.08	.15	.50	1.90	3.35
Giant Stride Asgrow No. 40.....	75	.08	.15	.50	1.90	3.35
Giant Stride Maffei	75	.08	.15	.50	1.90	3.35
Dark Dwarf Telephone.....	76	.08	.15	.40	1.65	3.00
Thomas Laxton	64	.08	.15	.45	1.70	3.10
Improved Stratagem	78	.08	.15	.45	1.75	3.25
Alderman	74	.08	.15	.45	1.80	3.25
Freezonian	65	.08	.15	.45	1.75	3.25
Everbearing	78	.08	.15	.45	1.70	3.10
Dwarf Gray Sugar	65	.08	.15	.45	1.80	3.20

Not Prepaid 5c per pound less—Write for prices on quantities.

PIE PLANT OR RHUBARB

Not all varieties of rhubarb can be produced from seed. The main cherry varieties are reproduced from roots.

MAMMOTH. Vigorous and productive, stalks 15 inches long.

VICTORIA. A popular red strain, very thrifty, long straight stems.

Prices: (Pkt. 10c) (½ oz. 20c) (oz. 30c) (¼ lb. 90c) lb. \$2.70).

PEPPERS

1 oz. for 1200 plants; ¼ lb. will plant an acre

CULTURE: Peppers require good soil, but the lighter type of soil seems to produce the best crops. Seed should be started in hotbeds or cold frames and transplanted to the open as early in May as possible but only after danger of frost is over. Plants should be set out in rows 2 to 2½ feet apart and 20 inches apart in the rows. Some rich fertilizer or commercial fertilizer worked into the soil when the plants are about 9 inches high will be found very beneficial.

SWEET PEPPERS



CALIFORNIA WONDER

HARRIS EARLY GIANT. 65 days. The best very early sweet pepper. Plants extremely prolific. Fruits large, slightly tapered, deep green and sweet.

EARLY TUSCANY. New. 68 days. A very early, large, sweet, prolific variety, maturing 3 to 4 days earlier than Calwonder. Fruits are 3 and 4 lobed, 3½ inches diameter, 4 inches long. Resembling World Beater in shape but smoother. Plants stocky and upright.

CALWONDER. Early California Wonder. 70 days. Plants stocky. Fruits 3 and 4 lobed, smooth, deep green, and uniform. Flesh thick, sweet, and mild.

CALIFORNIA WONDER. 76 days. The most popular pepper for market gardening and shipping. Plants vigorous, upright, and prolific. Fruits mostly 4 lobed, upright, chunky, and very thick fleshed, sweet, and mild. Continues to bear a long time.

OAK VIEW WONDER. An early strain of California Wonder. Fruit blocky, smooth; flesh thick, sweet and mild. Plants rather stocky, abundant bearer.

GOLDEN CALIFORNIA WONDER. The largest and most attractive yellow sweet pepper. Similar to California Wonder in plant and fruit size. Flesh very thick and sweet; fruit green, turns to deep golden yellow.

HUNGARIAN YELLOW WAX SWEET. An early sort. Plants dwarf and prolific fruit. Sweet pendulous pods 1½ inches diameter at base and often 8 inches long of waxy yellow turning to crimson.

RUBY KING. 69 days. Grows about 4 to 5 inches long and is often 3 inches in diameter. Very productive.

WORLD BEATER or IMPROVED RUBY GIANT. 70 days. Early large pepper. Fruits oblong, commonly 5 inches long, 3½ inches in diameter, deep green, becoming bright deep red, flesh sweet and thick. Heavy yielder.

CHINESE GIANT. 80 days. An extremely large, attractive, but somewhat late sweet pepper for home and market garden use. Plants short, stocky; fruits chunky, square ended, and heavy.

HOT PEPPERS

ANAHEIM CHILL. A semi hot variety, rather late, and used for canning, drying, and in making chili and tamales. Fruit is 6 to 8 inches long and 1¼ inches in diameter with top tapering to a point.

LARGE RED CHERRY. Plants vigorous, upright, prolific. Fruits round, smooth, solid, somewhat pungent. Color deep green changing to deep scarlet. Used in sauces, condiments and canned whole.

RED CHILI. 92 days. A late variety, used in the manufacture of pepper sauce. Bright red pods are about 2 inches long, tapering to a sharp point and exceedingly pungent.

LONG RED CAYENNE. 70 days. A well known variety having a slender, twisted and pointed pod about 4 inches long, bright red in color, extremely strong.

HUNGARIAN YELLOW WAX HOT. Same as Hungarian Wax Sweet but pods are hot and pungent.

PEPPER PLANTS. See page 38.

ALL PRICES POSTPAID

PEPPERS, SWEET

	Days	Pkt.	½ oz.	Oz.	¼ lb.	Lb.
Harris Early Giant	65	\$.10	\$.40	\$.70	\$2.00	\$6.25
Early Tuscan	68	.15	.45	.80	2.10	7.00
Calwonder	70	.10	.40	.70	1.90	5.75
California Wonder	76	.10	.40	.70	1.90	5.75
Oak View Wonder	72	.10	.40	.70	1.90	5.75
Golden California Wonder.....	72	.15	.45	.80	2.10	7.00
Hungarian Yellow Wax Sweet.....	60	.12	.45	.80	2.20	6.50
Ruby King	65	.10	.35	.60	1.75	5.25
World Beater	70	.10	.35	.60	1.65	5.00
Chinese Giant	80	.10	.35	.70	2.00	6.00
Pimiento Pepper	80	.10	.35	.60	1.50	5.00

HOT PEPPERS

Anaheim Chili	78	.10	.35	.60	1.75	5.25
Large Red Cherry.....	82	.10	.30	.55	1.75	
Red Chili	82	.10	.30	.55	1.75	
Long Red Cayenne.....	68	.10	.30	.50	1.60	
Hungarian Yellow Wax Hot.....	65	.10	.30	.55	1.75	

SPINACH

HOLLAND GROWN SEED

1 oz. to 100 ft. of drill; 12 lbs. per acre in rows, 25 lbs. if broadcast



BLOOMSDALE DARK GREEN LONG STANDING

CULTURE: Spinach thrives in any ordinary soil but rich soil increases the size and quality and its cultivation is a very simple matter. To secure spinach very early in the spring, the seed should be planted in the fall. For a succession, sow again early in the spring and every two weeks thereafter. Sow seed in rows 16 to 20 inches apart. The best crops and heaviest yields are obtained when the growing plants are not crowded; 4 inches apart is best, or seed may be broadcast and thinned out to 5 inches. As spinach likes cool weather it does exceptionally well in our mountain valleys.

GIANT NOBEL (Long-standing). Same as Gaudry. Extensively used variety especially in the Rocky Mountain states. A quick grower, plants are large, vigorous, and spreading producing large, thick, semi-curved and somewhat crinkled, very dark, green leaves. An excellent shipping variety and recommended for the home garden.

BLOOMSDALE DARK GREEN (Reselected). Distinguished by its deep colored leaves which are thick, broad, heavily crinkled and savoyed. Plants sturdy and spreading. Heavy yielder. Slow to bolt to seed. Leading variety for pre-packaging.

BLOOMSDALE LONG STANDING. Quick growing hardy variety. Plants large, uniform, erect and sturdy. Leaves dark green, heavy and crinkled. Remains in the rosette stage for a long time without bolting to seed. The most popular variety in the Rocky Mountain area.

NORTHLAND or VIKING. A very dark green selection out of a Giant Nobel equally as long-standing. Gives enormous yields.

MONSTROUS VIROFLAY. A large vigorous growing variety with long, broad, pointed, thick, smooth leaves of deep green color.

OLD DOMINION. Blight Resistant. On our trial ground we have found it to be the best blight resistant sort. Leaves are very curly or Savoy, dark green color, large in size, borne on long, strong stems, withstands cold weather and very suitable for late fall crop.

NEW ZEALAND. Native of New Zealand, quite distinct from other varieties of spinach, it thrives in hot, dry weather. The large, spreading plants have small, thick, pointed, deep green leaves, which can be picked repeatedly throughout the season.

ALL PRICES POSTPAID

SPINACH (Best Holland Grown Seed)	Days	Pkt.	Oz.	¼ lb.	Lb.	5 lbs.	10 lbs.	25 lbs.
Giant Nobel	45	\$.10	\$.15	\$.20	\$.55	\$2.50	\$4.75	\$11.25
Gaudry	45	.10	.15	.20	.55	2.50	4.75	11.25
Bloodsdaile Dark Green.....	40	.10	.15	.20	.55	2.50	4.75	11.25
Monstrous Virolflay	40	.10	.15	.20	.55	2.50	4.75	11.25
Bloodsdaile Long Standing	42	.10	.15	.20	.55	2.50	4.75	11.25
Northland or Viking	45	.10	.15	.20	.55	2.50	4.75	11.25
Old Dominion	42	.10	.15	.20	.55	2.50	4.75	11.25
New Zealand	70	.10	.15	.40	1.35	6.00		
If Not Postpaid, 5c lb. less			For larger amounts write for prices					

RADISHES

1 oz. will sow 100 ft. of row; 8 lbs. to an acre in drills, 12 lbs. if broadcast

CULTURE: The culture of radishes is so easy and the results so sure that they are probably found in more home gardens than any other vegetable. The varieties of radish differ so distinctly that the home gardener is able to obtain almost anything he prefers in the way of shape, color, size and season. The ground should be finely prepared, as free as possible from small stones and lumps. Plant seed about $\frac{1}{2}$ inch deep in rows 12 to 18 inches apart or may be broadcast, and when up about an inch thin to 1 to 2 inches apart. Radishes are at their best when growth is quick and steady. A moderate temperature and constant moisture are favorable for best results. In order to keep a continuous supply of young, mild radishes, successive plantings should be made.

CHERRY BELLE. Round, smooth, red radishes resembling cherries in shape and color; flesh is white, crisp and firm. Retain their good eating qualities for a long time as they are exceptionally resistant to pithiness. Of extra-early maturity and short tops. Highly desirable for home use and market sales.

PERFECTA SCARLET GLOBE. A new strain of Scarlet Globe satisfying the most critical radish growers on account of its bright, glowing scarlet color, its perfect globe shape, the extreme thin tap root and ideal tops, though not too small for easy bunching, classifies this strain ideal for summer out-of-door crop and for forcing under glass.

EARLY CAVALIER. (Short Top Forcing). A highly colored radish especially adapted for forcing, also suited for outdoor, tops are short. Roots bright true scarlet slightly olive shaped, uniform.

EARLY SCARLET GLOBE FORCING (Short Top). One of the most desirable sort for forcing under glass; also used for field culture. Tops small, ideal for bunching. Roots (olive shape), uniform, rich scarlet; flesh crisp and white.

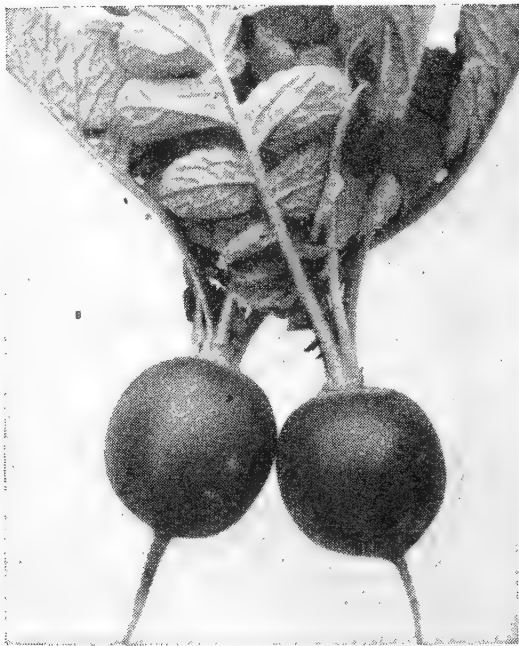
EARLY SCARLET GLOBE (Medium Top). An excellent strain for general home and market garden. Especially desirable for use out-of-doors for spring and fall planting; roots somewhat olive-shaped; color rich, bright scarlet; flesh white, and crisp.

COMET. Has the good qualities as Scarlet Globe and Cavalier but a rounded instead of an olive shaped root which is bright scarlet; tops short. Recommended for both field culture and forcing.

CRIMSON GIANT. A superior home and market garden variety for out-of-door planting. Roots large, spherical, slightly top-shaped; beautiful deep crimson; the white flesh holds its firmness well.

FRENCH BREAKFAST. Early home garden variety. Roots oblong, blunt; about $1\frac{1}{2}$ inches long and $\frac{5}{8}$ inch through; rich scarlet with white bottom; flesh white, crisp and firm.

ICICLE. The best early white variety. Particularly popular in home and market gardens. Tops small. Roots long, tapered; very white throughout and brittle; of splendid quality until 5-6 inches long and $\frac{1}{2}$ inch thick or larger.



CHERRY BELLE

SPARKLER WHITE TIP. Outstanding quality. Tops small, roots almost globular with small tap root, skin rosy carmine with lower third area a defined white. Holland grown seed.

CININNATI MARKET. (Gold Seal Quality). Roots very attractive, 7 to 9 inches long, bright rose color on upper part, shading to white at the tip. Flesh white and crisp.

ALL SEASON RADISH MIXTURE. This is a well-balanced mixture including early, midseason and late varieties. It is quite interesting to have a mixed bed. We suggest you broadcast when planting.

PRICES 15

FALL AND WINTER VARIETIES

ROUND BLACK SPANISH. A winter sort with round roots, somewhat top-shaped, 3 to 4 inches in diameter; skin black, with cracked longitudinal lines; flesh white, crisp and of strong flavor. An excellent keeper.

CHINESE WHITE WINTER or WHITE CALIFORNIA MAMMOTH. Largest of all winter radishes and a favorite with the Japanese gardeners. Root grows 8 inches long and 2 to 3 inches in diameter. Pure white skin and flesh. May be used in all stages of growth. Flesh is solid, crisp and mildly pungent.

CHINA ROSE. (Gold Seal Quality.) This variety should not be sown earlier than the middle of June, as it is a winter variety. Is very popular. Roots 4 to 6 inches long, 2 inches in diameter, cylindrical but thicker at the lower end; blunt, smooth, bright rose-red in color; flesh white, very firm and pungent.

SALSIFY or Oyster Plant

CULTURE: Sow the seed in the spring in drills 1 foot apart and 1 inch deep, thinning out plants to 4 inches. It succeeds best in light, well-enriched soil. One ounce to 50 feet of drill. Easy to grow, habits similar to those of the parsnips. Can be left in the ground during the winter; in fact, frost improves the quality

MAMMOTH SANDWICH ISLAND. This is the largest variety; very uniform in size; most popular sort for this section.

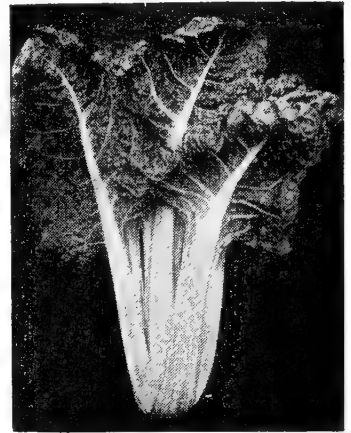
SWISS CHARD

CULTURE: Swiss Chard is a beet grown for its leaves. The midrib when boiled makes delicious greens or the leaves may be boiled and served as spinach. Sown in the spring the leaves are soon ready to eat and will continue to grow all through the summer and fall.

LARGED RIBBED DARK GREEN LEAVED. 52 to 62 days. Large, smooth, dark green leaves with silvery white stems, which are tender and of fine flavor.

LUCULLUS. 52 to 62 days. A new variety with curled leaves like a Savoy cabbage. The plant grows nearly 2 feet high and the upright stem and leaves are very large, light green and fine quality.

RHUBARB CHARD. Same as other chard except stocks and leaf veins are translucent, crimson. Leaves much crumpled, dark green, fine flavor, plants often used in flower bed borders.



LUCULLUS CHARD

TOBACCO

Tobacco seed must be sown early in the spring in frames or seed bed in rich soil. Reset the plants in the open ground after the weather has become warm, making space between the rows about 4 feet. The cultivation is practically the same as for corn.

IMPROVED WHITE BURLEY. A heavy yielder, rich, broad leaf. Desirable for fillers and wrappers.

CONNECTICUT SEED LEAF. Grown principally for the manufacture of cigars. Hardy, prolific, and well suited to production in the north and central states.

ALL PRICES POSTPAID

RADISHES, SUMMER AND FORCING	Days	ALL PRICES POSTPAID					
		Pkt.	Oz.	¼ lb.	½ lb.	Lb.	5 lbs.
Cherry Belle, New.....	24	\$.10	\$.12	\$.35	\$.65	\$1.15	\$4.95
Perfecta Scarlet Globe (Holland grown).....	25	.08	.12	.30	.50	.95	4.25
Early Cavalier (Holland grown).....	25	.08	.12	.30	.50	.95	4.25
Early Cavalier (American grown).....	25	.08	.12	.30	.50	.90	4.25
Early Scarlet Globe Forcing (Holland grown)	24	.08	.12	.30	.50	.90	4.25
Early Scarlet Globe (Holland grown).....	24	.08	.12	.30	.50	.90	4.25
Early Scarlet Globe (American grown).....	25	.08	.12	.30	.50	.90	4.25
Comet (Holland grown).....	26	.08	.12	.30	.50	.90	4.25
Crimson Giant (Holland grown).....	30	.08	.12	.30	.55	1.00	4.50
French Breakfast (Holland grown).....	27	.08	.12	.30	.50	.90	4.25
Icicle (Holland grown).....	29	.08	.12	.30	.50	.90	4.25
Sparkler White Tip (Holland grown).....	27	.08	.12	.30	.50	.90	4.25
Cincinnati Market	30	.08	.12	.30	.55	1.00	4.25
RADISHES, FALL AND WINTER VARIETIES							
Round Black Spanish.....	60	.08	.15	.45	.65	1.00	
Chinese White Winter.....	60	.08	.15	.45	.65	1.00	
China Rose	52	.08	.15	.45	.65	1.00	
All Season Radish Mixture.....	....	.08	.12	.30	.55	.90	
SALSIFY							
Mammoth Sandwich Island.....	140	.10	.30	1.10	2.10	4.00	
SWISS CHARD							
Large Ribbed Dark Green Leaved.....	60	.10	.17	.45	.85	1.60	
Lucullus	60	.10	.15	.45	.85	1.60	
Rhubarb Chard	60	.10	.25	.70	1.25	2.35	
TOBACCO							
		Pkt.	½ oz.	Oz.	¼ lb.		
Improved White Burley.....		\$.10	\$.20	\$.35	\$1.10		
Connecticut Seed Leaf.....		.10	.20	.35	1.10		

SQUASH

Squashes are divided into two distinct classes—summer and winter. Although they neither resemble nor taste alike, both are known as squashes. The majority of the summer varieties are the bush sorts—while most winter varieties are the running or trailing sorts.

CULTURE: Squash does not demand much cultivation and thrive on almost any soil. Never plant squash until all danger of frost is past, for they are very sensitive to cold. Summer or bush varieties should be planted in rows 3 feet apart and $3\frac{1}{2}$ feet in the row, for these sorts are produced on bushes and never trail. Winter or trailing varieties should be planted in hills about 4 to 5 feet apart and allowed to vine and trail all over the ground. Drop 4 to 5 seeds to the hill. In order to keep Summer Squashes bearing and producing the fruit must be picked and never allowed to grow large. In late fall after vines have dried, the Winter varieties should be gathered, leaving a 3 to 4-inch stem. Store in a dry place, handle carefully, avoid bruising.

BUSH or SUMMER VARIETIES

1 oz. to 25 hills; 3 lbs. will plant an acre

EARLY WHITE SCALLOP (Bennings). The most satisfactory and widely used of the White Summer Squash. Fruits pie shaped with scalloped edges. Have a deep green tint turning to cream color at maturity. Free of warts or knots. Plants large, prolific, and disease resistant.

EARLY PROLIFIC STRAIGHTNECK. Strictly bush compact, high-yielding summer squash. Fruits straight, almost smooth, of delicate creamy yellow color. Quality unsurpassed.

EARLY SUMMER GOLDEN CROOKNECK. Bears fruit of medium size, curved with curved neck, of a golden yellow color, and thickly covered with warts, very prolific.

CASERTA. A bush squash of the Italian Marrow type, one week earlier than Zucchini or Cocozelle. Fruit grayish-green; stripes dark green. Earliness and high productivity make this a favorite for market and home gardens.



ZUCCHINI Black

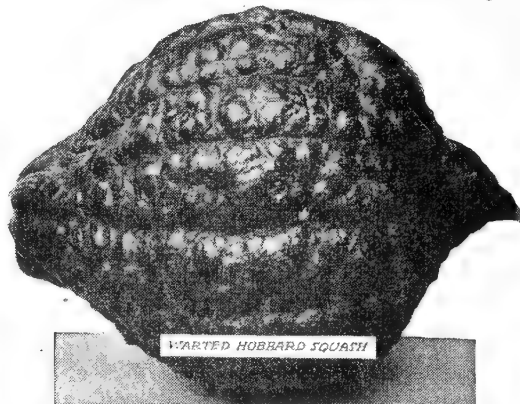
ZUCCHINI (BLACK). 66 days. Fruits smooth, rich, dark greenish black, no striping or mottling; flesh firm, greenish white; delicate flavor; cylindrical, attains 18 inches long, 4 inches diameter, but most suitable for table when 6 to 8 inches long.

VINING or WINTER VARIETIES

1 oz. for 15 hills; 4 lbs. for an acre

BLUE HUBBARD. Superior in edible quality to other Hubbard strains. Fruits large, round, pointed at both ends with very hard blue-gray rind. Weight 12-14 lbs. Flesh yellow-orange, thick, of fine flavor.

HUBBARD WARTED. The largest of the green Hubbards. Color very dark green. Shell hard and heavily warted. Flesh deep orange-yellow, dry, fine grained, and of excellent quality.



HUBBARD IMPROVED. Also called True Hubbard. It is one of the best for general purposes. The size is medium, the color deep green with a fair amount of warts. The rind is hard, the flesh thick and of fine texture and it keeps very well. The fruits are pointed at both ends.

HUBBARD GOLDEN. Very similar to other Hubbards but earlier, and somewhat smaller. Popular with home and market gardeners. Fruits somewhat pointed at each end, weigh 8 to 10 pounds, moderately warted, orange-red, with faint cream colored stripes toward blossom end; flesh deep orange, dry and of fine quality. It keeps well.

BANANA (Pink). A long type of winter squash 20 inches long, 6 to 7 inches in diameter and becoming very popular. Color is pink or light orange, flesh thick, fine grained of yellowish orange and of sweet flavor.

TABLE QUEEN or ACORN (Green). Desirable for home, market garden and also for shipping. Convenient for baking and serving in halves. Weighs only about $1\frac{1}{2}$ pounds. Acorn shaped fruits. Ribbed, smooth thin shell of very dark green color. Flesh light yellow. Bakes well with sweet, inviting flavor. Trailing in habit.

MAMMOTH TABLE QUEEN (Royal Acorn). Identical with Standard Table Queen except third larger; thicker flesh.

UNCONN. A table queen or acorn variety but earlier and grows on a bush instead of a vine. An all winter keeper. Fruits small, 5 inches long, 4 inches through, green becoming orange when over mature. Flesh sweet, stringless.

BUTTERNUT SQUASH. Matures early. Fruits 3 to 4 pounds, about 10 inches long, bulbous at bottom where small seed cavity is located; the neck is thick and solid. Rind thin and tough, creamy yellow. Flesh yellow, fine grained, excellent quality. Also delicious for pies.

BUTTERCUP. An outstanding winter squash, turban shaped with prominent button at blossom end, 6 to 8 inches in diameter, dark green with narrow gray stripes and slight mottling. Flesh, deep golden yellow, fine grain, very dry and pleasing flavor.

PUMPKINS

4 oz. will plant 100 hills; 3 lbs. will plant an acre

CULTURE: Sometimes grown in cornfields, but if grown as a separate crop, seed should be planted in hills 8 to 10 feet apart each way after weather and soil get warm. Hoe often till vines begin to run. Pumpkins do not require much water. Cut pumpkins from vine after the leaves die, leaving 3 or 4 inches of stem attached and store in a dry place. Handle carefully and avoid bruising. Use one ounce of seed to 20 hills of most varieties; 3 to 4 pounds per acre.

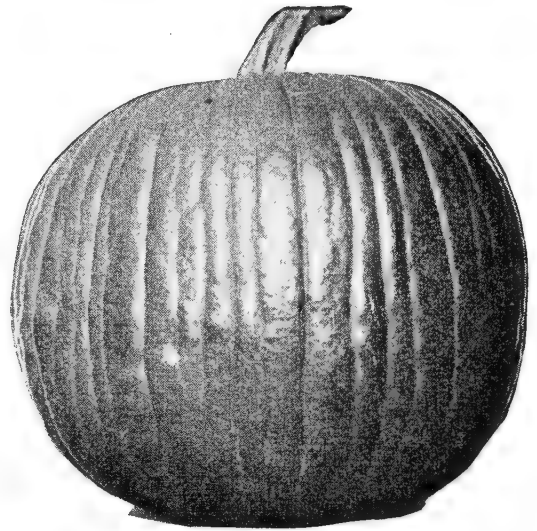
CHEYENNE BUSH. Ideal where space is limited as it does not vine or spread. Fruit 8 inches across, orange red, excellent for pie making.

DICKINSON. A good all purpose pumpkin. Meat is thick, brilliant, sweet. Fruits buff colored. Weighs about 15 pounds. Excellent for pies and canning.

SMALL SUGAR. A small round, variety, 6 to 8 lbs. Flesh thick, rich yellow and of high quality. Skin a deep orange. Best variety for cooking and pies.

KENTUCKY FIELD or SWEET CHEESE. A fine pumpkin, nearly 2 feet in diameter. Flesh dull orange color, extra thick. Heavy yielder and excellent keeper. Largely used for canning and stock feeding.

JAPANESE PIE. Large size, weighing from 15 to 20 pounds. Color of outside rind bluish-green, blotched with yellow. Has large neck. Flesh salmon-colored, very thick and sweet; for eating and stock feeding.



SMALL SUGAR

CONNECTICUT FIELD. A fine, large, orange-colored variety. Extensively used for pies, canning and stock feeding. Surface orange; smooth and ribbed; flesh thick, coarse and sweet.

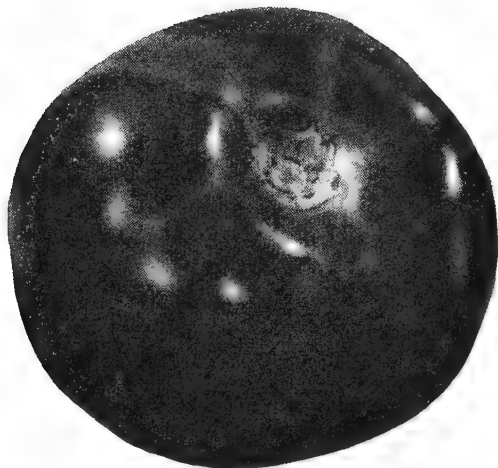
STRIPED CASHAW. For stock feeding. Fruits large, flesh thick, coarse, 20 inches long; weigh 20 lbs.

ALL PRICES POSTPAID

	Days	Pkt.	Oz.	¼ lb.	½ lb.	Lb.	5 lbs.
SQUASH, SUMMER BUSH VARIETIES							
Early White Scallop Bennings.....	52	\$.10	\$.17	\$.45	\$.80	\$1.50	\$6.75
Early Prolific Straightneck.....	52	.10	.17	.45	.80	1.50	6.75
Early Summer Golden Crookneck.....	57	.10	.15	.40	.75	1.50	6.75
Zucchini	66	.10	.17	.45	.80	1.50	6.75
Caserta	58	.10	.25	.60	1.25	2.25	7.25
VINING OR WINTER VARIETIES							
Blue Hubbard	108	.10	.20	.60	1.10	2.00	7.25
Warted Hubbard	110	.10	.20	.60	1.10	2.00	7.25
Golden Hubbard	100	.10	.20	.60	1.10	2.00	7.25
Hubbard Improved	105	.10	.20	.60	1.10	2.00	7.25
Banana	105	.10	.17	.45	.80	1.50	6.75
Unconn	75	.10	.25	.65	1.25	2.25	.....
Table Queen or Acorn.....	80	.10	.15	.45	.80	1.50	6.75
Mammoth Table Queen.....	84	.10	.15	.45	.80	1.50	6.75
Butternut	95	.10	.25	.65	1.25	2.40	.....
Buttercup	100	.10	.20	.70	1.25	2.25	.....
PUMPKINS							
Cheyenne Bush	100	.08	.12	.50	.....	1.50	6.75
Dickinson	120	.08	.12	.45	.....	1.50	6.50
Small Sugar	110	.08	.12	.45	.....	1.40	6.00
Kentucky Field	120	.08	.12	.45	.....	1.40	6.00
Japanese Pie	110	.08	.12	.45	.....	1.40	6.00
Connecticut Field	115	.08	.12	.45	.....	1.40	6.00
Striped Cashaw	115	.08	.12	.50	.....	1.50	6.50

TOMATOES

1 oz. produces 1500 to 2000 plants; ¼ lb. per acre



PEARSON IMPROVED

CULTURE: The best crops are grown on light, rich soil. In most sections the seed should be sown in hot-beds early in March or about 6 weeks before transplanting to the field. Sow seed in rows 4 inches apart and not over ½ inch deep. Enough plants for a small garden may be grown in shallow boxes or flower pots in a sunny window in the house. When the weather becomes warm out of doors, gradually harden them by exposing them to the air. When all danger of frost is past, set out in the open 3 to 4 feet apart each way. During the growing season do not allow the ground to cake or harden. Give plenty of cultivation until the vines cover the ground. One packet will produce about 200 plants; an ounce about 2,000.

BOUNTY, EARLY. 62 days. Especially recommended for dry land and sections with short season. Fruits are scarlet averaging 6 ounces, semi-globular of good quality. Plants small, short, may be set 2 feet apart in row.

BEAUTY. 85 days. A hardy grower, very prolific; large, smooth and a glossy crimson with a tinge of purple; grows in clusters of four to six large fruits, retaining its splendid size throughout the entire season. Flesh is very firm, has a tough skin and few seeds; seldom rots or cracks after rain. Picked green but matured, it will ripen nicely, making it a desirable shipping sort. A very satisfactory main crop tomato.

CHALK'S EARLY JEWEL. 75 days. One of the most satisfactory of second early varieties. Fruits flattened, bright red, firm and meaty, heavy producing. One of the finest for the home garden and canning.

EARLIANA. 73 days. A first early sort, widely used for home gardens, and by truckers. Vine is open, spreading, medium small. Fruits flattened, medium sized, firm, bright red, quite smooth.

EARLY STONE. 82 days. A new development. One week earlier than the Improved Stone. Vines heavy, large, deep green, and prolific; fruit larger than the Improved Stone, semiglobular, smooth, deep scarlet red and ripens well to the stem. Interior deep red.

JUNE PINK. 71 days. The earliest of the pink-fruited varieties. Vine is open, spreading, and rather short. Fruits medium sized, flattened, smooth; color purplish pink.

JUBILEE. 85 days. The outstanding yellow tomato for home garden use. Fruits large, globular, smooth, bright golden orange, very meaty, thick walled, few seeds, mild flavor.

JOHN BAER (Bonne Best). 76 days. Excellent for market gardening and canning. Vines are of medium height, fruit medium size, semiglobular, very attractive bright red, smooth and quite firm.

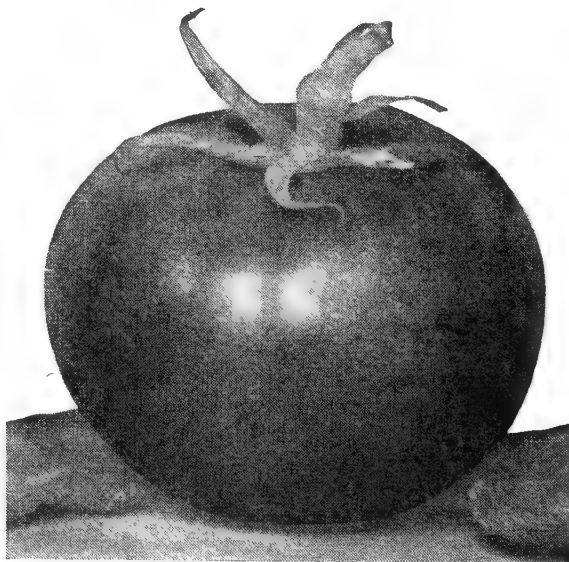
LANDRETH. A second early fine general purpose tomato; highly praised by market and home gardeners; a good canner. Fruits deep scarlet red, oblate to nearly round, medium size, smooth, solid, of good quality. Adapted to pruning and staking if desired.

LIVINGSTON GLOBE. 85 days. An excellent variety, well adapted to greenhouse production. Vine strong, with heavy foliage; prolific. Fruits large, full globe, smooth; purplish pink, ripens evenly.

PEARSON IMPROVED. 78 days. A good, new, all-around tomato. Fruits are medium-large, semi-globe, smooth of good even red color. Thick skinned, inside rose scarlet, very meaty and full. Vines compact with ample foliage to protect the heavy set of fruit.

PONDEROSA or BEEF STEAK. 90 days. Although a late variety, is one of the best for house use. Fruits deep purplish-pink; extremely large, deep but flat; very fleshy, mild flavor, with few seeds.

STOKESDALE. 72 days. An early scarlet fruited variety maturing about 10 days earlier than Marglobe. Plant rather open in habit with medium heavy foliage. Fruits large, globe or sub-globe, smooth and well colored. Recommended where length of growing season is less than average.



BEAUTY

TOMATOES

WASATCH BEAUTY (Moscow). 72 days. Plants compact and prolific, with branches terminating in clusters of round, red, firm and smooth fruit.

WISCONSIN NO. 55. Introduced by the College of Agriculture, Wisconsin. Vine vigorous, with some resistance to early blight and blossom end rot, open but fairly leafy. Fruits medium large, slightly flattened, of good scarlet color.

DISEASE RESISTANT

VARIETIES

BREAK O'DAY or GROTHENS GLOBE. 70 days. Plant light, of spreading habit; bears fruit early and very prolific; fruits medium large, orange red, globe shaped, and smooth.

MARGLOBE or MASTER MARGLOBE. 82 days. This main crop variety has come into wide use among large and small growers. Plants vigorous with heavy foliage, resistant to Fusarium Wilt and Nail Head Rust. Fruits medium large, nearly globular, deep red, smooth, solid with thick walls and cross sections.

CERTIFIED MARGLOBE. This is a carefully selected strain of Marglobe. Fruits large, nearly round, smooth, bright deep scarlet with small seed pocket. Adapted to field and greenhouse.

PRITCHARD or SCARLET TOPPER. 77 days. Disease resistant, heavily productive. Fruits large, smooth, globular, solid, with thick walls and cross sections; color light scarlet, not as intense as could be desired. Highly desirable for market garden use and for long distance shipping.

RUTGERS. 75 days. Uniform wilt resistant, with deep red skin and flesh. Ripens from inside out.

Especially recommended as a green wrap shipper and is a heavy yielder.

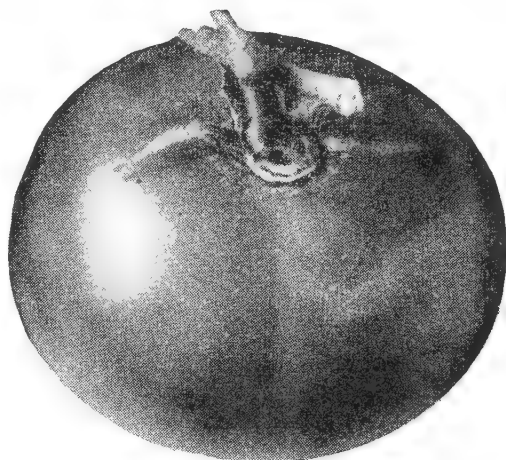
PRESERVING VARIETIES

SAN MARZANO. 80 days. A small fruited variety used for paste and for puree, also for preserves. Fruits rectangular, 2½ inches broad and 3½ inches long; deep red with little juice, and very mild flavor.

YELLOW PLUM. Yellow, plum-shaped, averaging 1 inch in diameter. Excellent flavor.

RED CHERRY. Fruits small, round, bright red.

TOMATO PLANTS. See Page 38.



MARGLOBE, IMPROVED

ALL PRICES POSTPAID

TOMATOES

	Days	Pkt.	½ oz.	Oz.	¼ lb.	Lb.
Bounty	62	\$.10	\$.30	\$.55	\$1.75	\$6.00
Beauty	85	.10	.30	.50	1.70	5.75
Early Stone	82	.10	.25	.40	1.25	4.00
Chalk's Early Jewel.....	75	.10	.25	.45	1.50	4.50
Earliana	73	.10	.30	.50	1.70	5.75
June Pink	71	.10	.30	.50	1.65	5.50
The Landreth	76	.10	.25	.40	1.40	4.75
Livingston Globe	85	.10	.40	.75	1.75	6.00
John Baer	76	.10	.25	.45	1.50	4.75
Jubilee	85	.10	.40	.75	1.80	6.50
Pearson Improved	78	.10	.40	.75	1.85	6.50
Ponderosa or Beef Steak.....	90	.10	.40	.75	1.85	6.50
Stokesdale'	72	.10	.25	.45	1.50	4.75
Wasatch Beauty	72	.10	.30	.55	1.75	6.00
Wisconsin No. 55.....	75	.10	.30	.55	1.75	6.00

DISEASE RESISTANT VARIETIES

Break O'Day	70	.10	.30	.50	1.50	5.00
Marglobe or Master Marglobe.....	82	.10	.25	.40	1.40	4.50
Certified Marglobe	82	.15	.30	.55	1.70	6.00
Pritchard, Scarlet Topper.....	77	.10	.25	.40	1.40	4.75
Rutgers	75	.10	.20	.35	1.30	4.40

PRESERVING VARIETIES

San. Marzano	80	.20	.50	.90	2.75	
Yellow Plum	72	.10	.35	.60	1.75	
Red Cherry	72	.10	.35	.60	1.75	

TURNIPS

1 oz. will sow 150 ft.; $1\frac{1}{2}$ to 2 lbs. in rows, 4 to 5 lbs. broadcast will plant an acre.

CULTURE: Turnip is one of the first seeds to be sown in the spring. As soon as the ground can be worked, spade or plow deeply, and prepare the surface finely, raking off all clods and trash. Sow the seeds at once in the freshly dug soil; sow very thinly in rows 1 to 3 feet apart, or broadcast by raking the seeds into the soil $\frac{1}{2}$ inch deep. When up, thin out to 3 inches apart. Soil should not be allowed to become hard and dry, for turnips to be good and mild must be grown quickly. Sowings at intervals of 10 days can be made until the end of August.

PURPLE TOP WHITE GLOBE. (Selected Strain.) 55 to 60 days. More of this variety is planted than all other varieties combined, mainly due to three characteristics: First, fine appearance, being globe-shaped, flesh firm and white, skin smooth, pure white, except crown or upper portion, which is richly colored, maroon to deep purple. Second, it is exceptionally sweet and mild. Flesh is crisp, not stringy. Third, it is a quick grower and the yield is heavy; a good keeper.

EXTRA EARLY PURPLE TOP MILAN. 48 days. Extremely early, good for forcing, as well as garden culture. Tops small, compact, strap leaved. Roots medium small, very flat, white throughout. Small tap root. Grown for early bunch trade.

WHITE EGG. 55 to 60 days. Tops medium size, upright, cut-leaved. Roots white, smooth, egg-shaped, 3 to $3\frac{1}{2}$ inches long, white throughout.

SEVEN-TOP TURNIPS. Cultivated exclusively for the tops which are used for greens.

YELLOW TURNIPS

GOLDEN BALL. 60 to 65 days. A delicate and sweet-flavored yellow-fleshed turnip, not of large size but firm, hard and of superior quality. Keeps well.

AMBER GLOBE. 70 days. Roots large, globular shape, skin yellow tinged with green at top, flesh yellowish white, sweet and tender. Good table variety. Grown extensively for stock.

RUTABAGAS

1 oz. to 15 ft. row; 1 lb. per acre

AMERICAN PURPLE TOP. (Gold Seal Quality.) 90 days. A dependable variety for large scale production for storage and shipping. Roots large, round, with small neck and slight tap root; yellow with purple top; flesh light yellow, firm, sweet and tender.

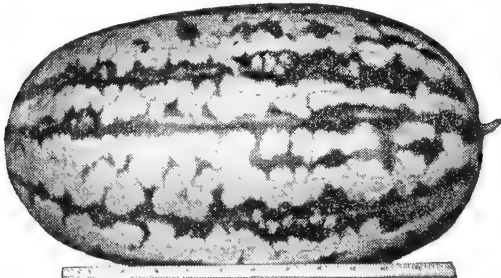
LAURENTIAN (Neckless). A strain of purple top rutabaga. Tops short practically neckless. Roots medium large, spherical, free from excess side roots; purplish red above ground, light yellow below. Flesh creamy yellow, firm, mild, and sweet. Excellent for shipping and storage.

WATERMELONS

Our Watermelon seed is a superior product, grown under absolute isolation. No commercial picking is allowed.

3 ozs. to 100 hills; 4 to 5 lbs. will plant an acre.

CULTURE: Watermelons do best in light, rich, well-drained sandy loam. Prepare hills about 8 feet apart each way. Drop 7 or 8 seeds in the hills, covering about $\frac{3}{4}$ inch deep. As soon as plants commence to run, thin out to three best plants in a hill. Be careful not to irrigate too often. Watermelons are lovers of drought and frequent deep cultivation. A liberal amount of manure or commercial fertilizer will increase the yield. For best results watermelons should not be planted on ground where grown the previous one to three years. For extra early melons, use our Hotkaps. See page 92.



STRIPED KLONDIKE

EARLY CANADA (SWIKA). 70 days. Recommended in the north or higher altitudes where growing seasons are short. Medium size, nearly round, greenish gray, flesh bright red and of good quality.

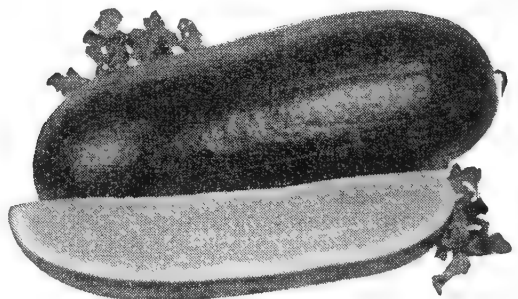
ICEBOX or EARLY SUGAR LUMP. 74 days. These small size watermelons fit nicely in the ice box and are tremendous yielders. Extremely early, delicious in quality, flesh red.

COLE'S EARLY or HARRIS' EARLY. 75 to 80 days. Bears early fruits, medium sized, oval, with alternate dark and light green stripes; tender rind. Flesh pink-red, of good flavor; seeds black.

NORTHERN SWEET. 77 days. Adapted to shorter season areas. Fruits small, nearly round, medium green with dark green stripes; rind very thin. Flesh very deep red, crisp, sweet, good flavor.

EARLY KANSAS RED SEEDED. 85 days. Has rapidly gained wide popularity on the markets of the midwest. Fruits are large, nearly round, dark green with alternate stripes of lighter shade. Flesh is firm, a rich red color, exceptionally sweet; seed reddish-brown.

DIXIE QUEEN. 85 days. An early and excellent home garden and shipping melon. Bears an unbelievable number of almost round fruit weighing around 28 pounds. Rind thin and tough, light green color with dark green irregular stripes. Flesh rich scarlet, fine grained, tender, luscious flavor. Seeds are very small and white.



KLECKLEY SWEET

WATERMELONS

KLONDIKE GREEN RIND (Black Seeded No. 3).

85 days. The earliest and sweetest strain of Klondike. In eating quality it is excellent; like all Klondikes it has very high sugar content. Flesh bright, deep red, firm, very sweet and tender. Seed small black. Fruit oblong medium size. Rind pure green, very thin but only fairly tough.

KLONDIKE GREEN RIND NO. 7 (Wilt Resistant). 87

days. Very similar to Klondike No. 3 but somewhat tougher rinds. Resistant to Fusarium wilt; yields a few less melons; seed small varying from tan to black.

KLONDIKE STRIPED NO. 11. 87 days. Regarded

as the best Klondike for shipping as melons are somewhat larger with a tough rind although medium thin; light green color with dark rattle-snake striping; flesh bright scarlet, solid, deliciously crisp and sugary. Good keeper.

KLONDIKE BLUE RIBBON. (Wilt Resistant). 88

days. In all respects is like Striped Klondike but is resistant to fusarium wilt.

KLECKLEY SWEET NO. 6. Wilt resistant. 88 days.

An improved Kleckley Sweet type which has proven almost fully resistant to wilt.

ROCKY FORD. Same as Kleckley Sweet.

IMPROVED KLECKLEY SWEET or WONDER

MELON. 87 days. A fine, medium early watermelon of superb, luscious flavor. While the rind is perhaps too brittle and thin to admit of rough handling, yet it is most desirable to plant for home use or market. The melons are large and oblong in form, with dark green skin. Flesh is bright scarlet with solid heart, deliciously crisp, sugary, and splendid in every way.

KING AND QUEEN (WINTER QUEEN). 88 days.

Especially adapted to the Western section of the United States. Fruits medium size, round, light green to ivory color. Flesh bright pink to red. Very firm, crisp, exceptionally sweet and juicy. Seed small, jet black. Ripens early September. Can be kept late into fall without losing any of its fine quality.

TOM WATSON. 90 to 95 days. The outstanding

shipping melon; similar in outside appearance to Kleckley Sweet. Fruits very large, uniform, cylindrical; with deep green, faintly veined, tough and elastic rind. Flesh bright red, firm, somewhat coarse; of good flavor.

BLACKLEE (Black Seeded Kleckley). 85 days.

New wilt resistant. Skin black green; rind tough; flesh brilliant red, sweet, excellent quality, finely grained. Vigorous grower.

ALL PRICES POSTPAID

TURNIPS

	Days	Pkt.	Oz.	¼ lb.	½ lb.	Lb.	5 lbs.
Purple Top White Globe.....	55	\$.10	\$.15	\$.45	\$.75	\$1.30	\$5.25
Extra Early Purple Top Milan.....	48	.10	.15	.45	.75	1.30	5.25
White Egg	60	.10	.15	.40	.70	1.20	5.00
Seven-Top Turnips .....	....	.10	.15	.35	.65	1.00	4.50

YELLOW TURNIPS

Golden Ball	60	.10	.15	.40	.70	1.20	5.00
Amber Globe	70	.10	.15	.40	.70	1.20	5.00

RUTABAGAS

American Purple Top	90	.07	.15	.40	.70	1.20	5.00
Laurentian .....	....	.07	.15	.40	.70	1.20	5.00

WATERMELONS

	Days	Pkt.	Oz.	¼ lb.	Lb.	5 lbs.
Early Canada	70	\$.10	\$.17	\$.50	\$1.50	\$6.75
Icebox or Early Sugar Lump.....	74	.10	.17	.45	1.50	6.50
Cole's Early or Harris' Early.....	76	.10	.17	.45	1.50	6.25
Northern Sweet	77	.10	.18	.50	1.50	6.50
Early Kansas Red Seeded.....	85	.10	.18	.50	1.50	6.50
Dixie Queen	85	.10	.18	.50	1.50	6.50
Klondike Green Rind.....	85	.10	.17	.45	1.60	6.75
Klondike Green Rind No. 7.....	87	.10	.17	.45	1.60	6.75
Klondike Striped No. 11.....	87	.10	.17	.45	1.60	6.75
Klondike Blue Ribbon.....	88	.10	.17	.45	1.60	6.75
Improved Kleckley Sweet or Wonder Melon.....	87	.10	.17	.40	1.50	6.50
Rocky Ford	88	.10	.17	.40	1.50	6.25
Kleckley Sweet No. 6.....	88	.10	.17	.45	1.50	6.25
King and Queen.....	88	.10	.17	.45	1.50	6.50
Tom Watson	90	.10	.17	.45	1.50	6.25
Blacklee	85	.10	.17	.45	1.50	6.25
Black Diamond	94	.10	.17	.45	1.50	6.25

PRESERVING MELONS

Citron, Green Seeded.....	....	.10	.17	.45	1.40	6.25
Citron, Red Seeded.....	....	.10	.17	.45	1.40	6.25
Vine Peach or Lemon Cucumber.....	....	.10	.20	.45	.....	.....

PLANTS AND ROOTS

NOTICE: Vegetable and flower plants are very perishable and due to the slower parcel post and express, we cannot assume the responsibility or guarantee that plants will always arrive in good condition. While we will use special care in packing all orders, buyers must assume all risk account damage due to delay in transit. We suggest if it is possible that you grow your own plants as they do so much better when planted immediately after taken from the seed beds. Plants not available after JUNE 1.

VEGETABLE PLANTS

Order not less than 10 of any variety
Pay postage and packing as per TOTAL number
ordered

Plants Ordered	10	100	500	1000
Add Postage	\$.10	\$.17	\$.31	\$.47

10 100 500 1000

CABBAGE. Ready about May 5th.
Early — Golden Acre, Copenhagen Market. Midseason —
Globe. Late — Evergreen Hollander, Danish Ballhead, Red Hollander\$.21 \$.89 \$3.90 \$6.90

CAULIFLOWER. Ready about May 5th. Mount Blanc, Snowdrift No. 1629 1.10 4.95 8.80

CELERY. Ready about May 10th. Golden Self Blanching. Ready about May 25th. Pascal Celery. Either Utah or Hartner's New "A" Strain21 .89 3.90 6.90

EGGPLANT. Ready about May 10th. Black Beauty29 1.10 4.95 8.80

ONION PLANTS. See page 24.

PEPPERS. Ready about May 10th. California Wonder, World Beater, Anaheim Chili, Large Red Cherry, Red Chili, Long Red Cayenne29 1.10 4.95 8.80

TOMATO. Ready about May 10th. Bounty, Chalks Early Jewel, Pearson Improved, Beauty, Ponderosa or Beefsteak, Marglobe Improved, Rutgers..... .29 1.10 4.95 8.80

SWEET POTATO PLANTS. Ready about May 15. Yellow Jersey, Nancy Hall29 1.25 4.95 8.80

Write for special prices on larger quantities than those listed above.

VEGETABLE ROOTS, ETC.

ASPARAGUS.

Two-year-old roots.	Per 12	50	100	1000
Mary Washington	\$.25	\$.75	\$1.39	\$12.90
Paradise .....	.25	.75	1.39	12.90
Add Postage and Packing.....	12	.25	.45	1.25

RHUBARB (Pie Plant).

McDONALD. Beautiful dark red color. Large tender stalks. Wonderful flavor for all purposes.

Divisions, each, 49c; 3 for \$1.35.

Postage and Packing, each 7c; 3 for 14c.

VICTORIA. See page 27 for description.

Divisions, doz., 79c; 50, \$2.95; 100, \$5.40.

Postage and Packing, doz. 12c; 50, 70c; 100, 1.25.

Each Doz.

CHIVES, Sprouted. Big bunch, postpaid....\$.35 \$3.50

MINT ROOTS. Big clumps, postpaid..... .30 2.90

SAGE. One-year clumps, postpaid..... .40 4.20

TARRAGON. For Tarragon Vinegar, postpaid35 3.50

HORSERADISH. This is one of the hardiest vegetables for the garden or farm. It gives results the first year. The larger roots can be taken up and stored for winter use.

Postpaid. Doz., 35c; 100, \$2.65.

ANNUAL PLANTS FOR THE FLOWER GARDEN

Many people wishing earlier blooms and not having the time to start the young plants indoors from seed, we list below the most popular annuals which are carefully grown by us from our finest seed. Ready May 10th or later.

Do not order less than 10 of a kind

Add postage and packing, per 10, 10c; per 50, 35c;

10 50

ASTERS, Crego Giants. All colors. American Branching, Princess. Page 40....\$.50 \$2.25

AGERATUM, Purple Perfection Dwarf listed on page 39..... .50 2.25

CALENDULA. Varieties 169-A, 172-A, 173-A, 175-A as listed on page 41..... .50 2.25

CANDYTUFT. 180-A. Page 41..... .50 2.25

CARNATION. Varieties 187-A to 192-A as listed on page 42..... .50 2.25

CANTERBURY BELLS. Annual. 182-A. Page 4150 2.25

FORGET-ME-NOT. 223-A. See page 43..... .50 2.25

GODETIA, Tall and Dwarf Double Flowered. Mixed. Page 4350 2.25

LARKSPUR. Varieties 253-A, 254-A, 256-A, 259-A. Page 44..... .50 2.25

LUPINS, Russell. Perennial Seedlings. See page 55\$2.15 \$ 8.95

MARIGOLD. Varieties 268-A, 269-A, 272-A, 274-A, 278-A. Page 45..... .50 2.25

PANSIES. Page 48. Variety 313-A only..... .60 2.90

PETUNIA

Firechief. Page 1..... .60 2.50

Celestial Rose. 331-A. See page 47..... .50 2.25

Fluffy Ruffles. 346-A. See page 47..... .50 2.25

Giants of California. 347-A. See page 47. .75 3.40

Rose of Heaven. 327-A. See page 47..... .50 2.25

Elk's Pride. 336-A. Page 47..... .50 2.25

Snowstorm Improved. 345-A. Page 47..... .50 2.25

SALPIGLOSSIS. See page 49..... .50 2.25

SALVIA, Firebrand. Extra fine. 371-A. Page 4960 2.75

SNAPDRAGON. Mixed varieties as listed on page 49..... .50 2.25

STATICE. Market Growers Blue. 388-A. Page 4950 2.25

STOCKS. 394-A. Page 50..... .50 2.25

VERBENA. 415-A to 418-A. Page 51..... .50 2.25

ANNUAL FLOWER SEEDS

Biennial and Perennial
Varieties See pp. 53, 54, 55

All Prices Postpaid

HOW TO SOW FLOWER SEED

Flower Seed Treated for Your
Protection and Sturdy Growth.

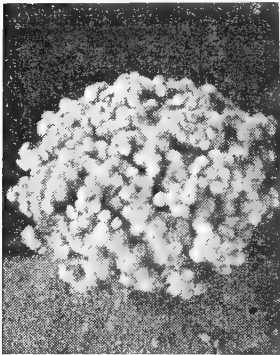
ANNUAL FLOWERS are those which grow, bloom, seed and die in one season. Usually they are the most continuous bloomers. The seed of most annuals may be sown directly in their permanent place; for earlier blooms seed should be started indoors. If that is not convenient, select a warm location in the yard for a seed bed, and after plants are established reset them to their permanent place, but in each method the soil should be a fine, loose, mellow loam and raked smooth. Seed can be sown in rows or broadcast. Do not plant flower seeds too deep. Usually a covering with fine pulverized soil equal to four times the diameter of the seed is best. Very fine seed may be merely pressed firmly in the soil. Never allow the covering soil to become dried and caked.

When watering be sure to use a fine spray until the plants have gotten well through the surface.

For early plants when seeds are started indoors, about one-third sand mixed with the soil is best. Keep in shade until the seeds sprout, then place near a window where there is a fair amount of sunlight.

ACROCLINIUM (Everlasting). Bears graceful daisy-like flowers, grown for winter bouquets and decorations. The flowers are usually cut when in the bud state and will open out as they dry.
101A—Giant Double Hybrid Mixed. (Pkt. 10c) (1/4 oz. 25c). New. Large flowering.

AGERATUM (Floss Flower) (RG). Very attractive free blooming dwarf border and rock garden flower. Easily grown from seed.



AGERATUM
Blue Ball

103A — Blue Ball Improved Dwarf. (Pkt. 10c) (1/8 oz. 20c). Broad green foliage. Plants dwarf symmetrical 6 in. compact covered with deep azure blue flowers.

104A—Blue Cap. (Pkt. 10c) (1/8 oz. 45c). Very dwarf and compact dome shaped flower of rich deep blue, finest of Ageratums.

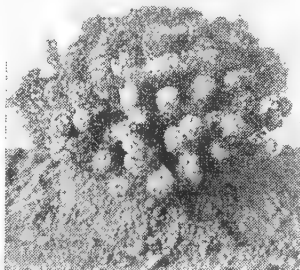
105A—Blue Perfection. (Pkt. 10c) (1/4 oz. 35c).

Dwarf, very large true blue flowers.

106A—Purple Perfection Dwarf. (Pkt. 10c) (1/4 oz. 35c). Bears a mass of large vivid purple blooms. Plants six inches tall.

ALYSSUM. One of the easiest flowers grown. A quick bloomer, for borders, baskets, pots, rock-work and for cutting. Blooms all season. In borders, sow thickly, so as to form masses.

110A—Violet Queen. (Pkt. 10c) (1/4 oz. 30c) (1/2 oz. 40c). Plants are dwarf compact, neat in habit, covered with small sweet scented flowers of a rich, very deep shaded violet from early summer until late fall. Excellent for borders.



ALYSSUM
Violet Queen

111A—Carpet of Snow. (Pkt. 10c) (1/4 oz. 20c) (1/2 oz. 30c). Extra dwarf, covered with delicate white flowers.

112A—Maritimum (Sweet Alyssum). (Pkt. 10c) (1/4 oz. 15c) (oz. 40c). Flowers pure white. Honey-scented.

113A—Little Dorrit. (Pkt. 10c) (1/4 oz. 20c) (oz. 50c). 3 to 4 inches. Forms perfect little bushes smothered with miniature white flowers.

Alyssum Perennials. See page 53.

AMARANTHUS. Plants are hardy annuals and are grown for their brilliant foliage. Especially suitable for backgrounds, centers of beds.



ARCTOTIS
Giant Hybrids

115A—Tricolor (Joseph's Coat). (Pkt. 10c) (1/8 oz. 20c). Leaves variegated yellow and red; flowers crimson.

116A—Caudatus (Love Lies-Bleeding). (Pkt. 10c) (1/4 oz. 20c) (oz. 45c). Long drooping crimson flower spikes with yellowish green foliage. 3 feet tall.

ANCHUSA, Capensis.

118A—Blue Bird. (Pkt. 10c) (1/8 oz. 20c). One of the best blue annuals, 2 feet tall covered

with intensive blue flowers with white eyes, blooms all summer.

Perennial Varieties, see page 53.

ANTIRRHINUM. See Snapdragon, page 49.

ARCTOTIS (African Daisy). Showy, bears protusion of 2 1/2 to 3 inch daisylike flowers, fine for cutting. Does well in sunny location.

120A—Giant Hybrids. (Pkt. 20c) (1/8 oz. 45c). Flowers in white and shades of brown, apricot, yellow, pink, red and terra cotta; 10 inches tall.

121A—Grandis Blue Eyed African Daisy. (Pkt. 10c) (1/4 oz. 25c). Flowers silvery lilac with mauve center, foliage gray-green.

ASTERS. The asters are now among the most interesting, beautiful and satisfactory of flowers; late years have added charming new colors and gigantic size to the kinds now being grown in this country. They thrive and flower throughout the entire summer and there is hardly a prettier sight than a bed of asters in full bloom. The aster is of easy culture. Seed can be sown outdoors but for earlier blooms seed should be sown in March or April in the hotbed or in boxes, and when the plants have three or four leaves transplant to the open, 18 inches apart each way.

DISEASE OF ASTERS

The two main diseases of asters are aster wilt and aster yellows. Wilt can be avoided by using wilt resistant seed. Yellows, we have found, is mainly due to over watering. It is surprising how little water asters require.



ASTER
Crego Giants

like petals, giving a feathery appearance; of immense size. 2½ feet.

124A—Finest Mixed. (Pkt. 10c) (¼ oz. 30c).

Princess—Wilt Resistant. Plants 2½ ft., branching. Very attractive new cutting type. Early blooming. Flowers 3 to 3½ inches with full crested centers surrounded by several rows of dainty plumelike petals.

125A—Mixed. (Pkt. 15c) (¼ oz. 45c).

Crego Giants—Wilt Resistant. This is the finest of the Comet Asters. Flowers large, double and have long, narrow, gracefully curled petals. Plants grow about 2½ feet tall.

126A—Deep Rose.

127A—Crimson.

128A—Royal Purple.

130A—Shell Pink.

131A—Light Blue.

132A—White.

133A—Mixed.

Any of above: (Pkt. 10c) (¼ oz. 25c) (oz. 90c).

American Beauty—Wilt Resistant. Plants grow 2½ to 3 feet tall. Branching, strong, and flowers are full petaled and double. One of the finest varieties especially adapted to this section. Early blooming.

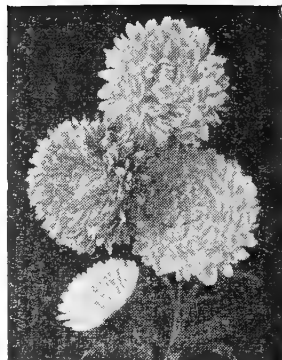
135A—All Colors Mixed. (Pkt. 10c) (¼ oz. 35c).

Early Queen of the Market—Wilt Resistant. Two weeks earlier than most others. Branching habit. 1½ feet tall, beautiful shades. Fine for cut flowers.

123A—Mixed. (Pkt. 10c) (¼ oz. 30c).

Ostrich Feather Aster—Wilt Resistant. The flowers of this class resemble the Japanese Chrysanthemums, with long curved, fringe-

American Branching (Vick's). Wilt resistant. Plants 2½ to 3 feet tall, branching, robust flowers, large double, with petals broad and slightly curved. White, lavender, pink, crimson, purple, mixed. Our seed best money can buy.



ASTER
American Branching,
Finest Mixed

136A—Mixed. (Pkt. 10c) (¼ oz. 35c).

BABY'S BREATH (Gypsophila). Small, fragrant flowers, borne on long feathery stems. No flower adds more of light and grace to a bouquet than this, and when once grown will be found indispensable.

137A—Special Convent Garden (Alba). (Pkt. 10c) (½ oz. 25c). This is an outstanding large flowering, pure white, annual Baby's Breath of free, easy growth.

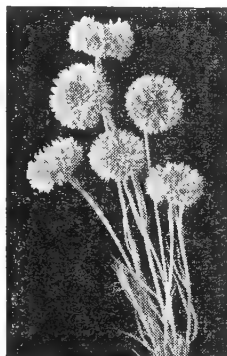
138A—Elegans Crimson. (Pkt. 10c) (½ oz. 20c). A beautiful shade of carmine.

Perennial Varieties, see Gypsophila, page 55.

BABY BLUE EYES (Nemophila). Hardest of annuals. Early culture for semi shade.

139A—Insignis Blue. (Pkt. 10c) (¼ oz. 25c). Lovely cup-shaped sky-blue flowers with white centers. Rock garden plant.

BACHELOR BUTTON. Plants grow 2 to 2½ feet tall and if faded flowers are kept cut they will produce continuously double blooms on long stems throughout the summer and fall. Fine for beds, borders and cutting. Also called Ragged Sailor, Ragged Robin and Cornflower. Do well in cool, partly shaded location. Easy to grow.



BACHELOR BUTTON
Double Blue Boy

140A—Black Boy. Double maroon.

141A—Blue Boy. Double. Exquisite cornflower blue.

142A—Red Boy. Double deep red.

143A—Snow Man. Double. Graceful large white.

144A—Pinkie. Double. Lovely true pink.

145A—Mixed. Double. All colors mixed.

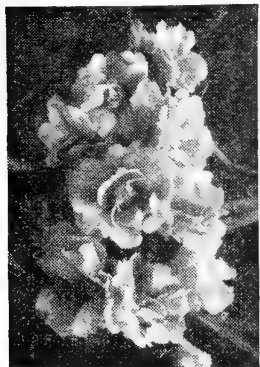
146A—Mixed. Single. All colors mixed.

Any of the above—(Pkt. 10c) (2 pkts. 15c) (¼ oz. 20c).

147A—Jubilee Gem. (Pkt. 10c) (¼ oz. 25c) (oz. 70c). Extra dwarf. Bushy. Double dark blue flowers. Vivid green foliage.

BALLOON VINE (Love-in-a-Puff). Hardy annual climber growing 10 feet in height. Foliage light green. Bears small white flowers, followed by inflated seed pods resembling small balloons. Used mostly to cover fences, etc., because of its free and rapid growth.

150A — (Pkt. 10c) (oz. 25c).



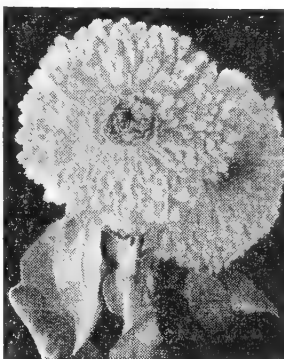
BALSAM
Camellia Flowered

BALSAM (Lady Slipper).

A very easy and satisfactory annual to grow

152A — **Camellia Flowered.** (Pkt. 10c) (¼ oz. 25c). Plants 2 feet tall, bushy, covered with large double blooms.

CALENDULA (Pot Marigold). Large double flowers blooming all summer. Plants grow 1½ to 2 feet high. They are easy to grow, a constant bloomer and a very desirable house flower.



CALENDULA
Sunshine

169A—**Sunshine (Chrysanth).** (Pkt. 10c) (¼ oz. 20c). Flowers large, yellow with long curling petals; fine for cutting.

170A — **Apricot Queen.** (Pkt. 10c) (¼ oz. 20c). A flat petaled variety of a bright apricot shade.

171A — **Campfire.** (Pkt. 10c) (¼ oz. 20c). Grows vigorously with strong stems bearing completely double dark orange scarlet sheen flowers often 4 inches across.

172A—**Double Lemon Queen.** (Pkt. 10c) (½ oz. 20c). Large lemon or sulphur.

173A—**Ball's Gold.** (Pkt. 10c) (¼ oz. 15c). Beautiful variety especially adapted to forcing. Deep glowing orange.

174A — **Radio.** (Pkt. 10c) (½ oz. 20c). Quilled orange-colored petals.

175A—**Double Mixed.** (Pkt. 10c) (½ oz. 20c). Mixture of several shades of orange, yellow and primrose.

CANDYTUFT (Iberis). Easy to grow. Requires little care. Sow any time in spring. Blooms all summer. 12 inches high.

178A—**Rose Cardinal.** (Pkt. 10c) (¼ oz. 20c). Bears an abundance of rose colored flowers.

179A — **Giant Hyacinth Flowered.** (Pkt. 10c) (¼ oz. 20c). Large spikes of purest white flowers, erect habit and a free bloomer. Recommended for cut flower and bedding.

180A—**Large Flowering Mixed.** (Pkt. 10c) (¼ oz. 20c).



CANDYTUFT
Hyacinth Flowered

BLUE LACE FLOWER. Attractive annual with dainty lavender flowers. Excellent for cutting.

154A—(Pkt. 10c) (¼ oz. 40c).

BURNING BUSH. See Kochia.

CACALIA (Tassel Flower). An easy growing annual suited for borders and cutting. Each flower is a miniature paint brush borne on long, wiry stems.

155A—**Coccinea.** (Pkt. 10c) (½ oz. 20c). Red blossoms.

CALLIOPSIS. Easily grown in almost any location. Very showy, daisylike flowers in a wide variation of yellow and orange tones with finely cut foliage. Blooms continuously.

157A—**Golden Crown.** (Pkt. 10c) (¼ oz. 25c). Large golden yellow flowers on 12 inch wiry stems.

158A—**Golden Wave.** (Pkt. 10c) (¼ oz. 20c). Pure yellow, center dark brown.

159A—**Tall Finest Mixed.** (Pkt. 10c) (¼ oz. 20c). These are yellow orange, and maroon, many marked with band of contrasting color.

CALIFORNIA POPPY (Eschscholtzia). Cheerful blooms and finely cut foliage. Sow where plants are to remain. Hardy annual, grows 1 to 1½ feet high.

160A—**Auriantiaca (True California Poppy).** Golden yellow.

161A—**Mandarin.** Inside of petals orange, outside scarlet.

162A—**Golden West (Californica).** Yellow with orange center.

163A—**Alba.** Reselected white.

164A—**Carmin King.** Deep crimson.

165A—**Brilliant Prize Mixture.**

Any of the above—(Pkt. 10c) (¼ oz. 20c).

166A—**Ramona Hybrids.** (Pkt. 10c) (½ oz. 25c). Flowers beautiful golden bronze within and copper-rose outside with frilled edges.



CALIFORNIA POPPY

CANTERBURY BELLS

(Campanula). Bears a great profusion of attractive, bell-shaped lavender, blue, pink and rose flowers. Grows from two to four feet.

182A—**Annual Mixed.** (Pkt. 15c) (¼ oz. 40c). Flowers and plants same as Biennial Canterbury Bells but these bloom the first year from seed; for early blooms start seed indoors.

Seed treated for sturdy growth.

All Prices Postpaid

CASTOR OIL BEANS (*Ricinus*).

183A—Zanzibariensis, Mixed. (Pkt. 10c) (oz. 15c). (¼ lb. 50c). A large growing ornamental, tropical appearing plant, beautiful in backgrounds. Does best in warm locations. An enormous, large growing variety attaining a height of 10 to 12 feet with large-lobed leaves in green, red, and bronze.

184A—Redspire. (Pkt. 10c) (1 oz. 20c) (¼ lb. 60c). A beautiful variety of medium growth 6 to 8 feet. The leaves are red-bronze, stems and spikes of flowers are crimson.

CARNATION. They are very neat in habit and are remarkable for their rich profusion of flowers. Can be sown in early spring but most satisfactory method is to start indoors and transplant to the open about 18 inches apart. All are biennial if given some protection through the winter.

Marguerite. The earliest blooming carnations, growing an abundance of flowers on good strong stems. Plants 16 to 20 inches.

187A—Good Well Balanced Mixture. (Pkt. 10c) (½ oz. 25c).

Chabaud's Giant Improved. Finest of carnations. Start seed indoors, bloom in five months and continue throughout the summer. Plants 16 to 20 inches, robust, upright and form 10 to 20 stalks bearing huge fine flowers. With some protection from cold it will bloom second year.

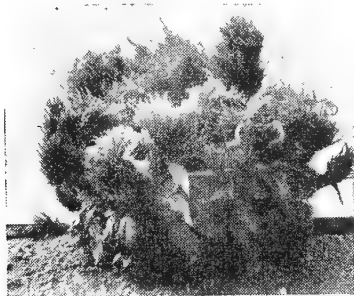
189A—Nero. (Pkt. 20c) (½ oz. 50c). Deep dark crimson.

190A—Jeanne Dionis. (Pkt. 20c) (½ oz. 50c). Large white.

191A—Marie Chabaud. (Pkt. 20c) (½ oz. 50c). Yellow.

192A—Mixed. (Pkt. 15c) (½ oz. 40c). Finest all colors.

COCKSCOMB (*Celosia*). Graceful, handsome, pyramidal plants, each branch tipped with a brilliant colored plume or comb.



COCKSCOMB, Plumosa

they flowers of fiery scarlet and golden yellow.

196A—Golden Plume. (Pkt. 10c) (¼ oz. 25c). Silky heads. Golden yellow. Plants branching.

(Continued next column)



CARNATION
Chabaud's

194A—Cristata (Cockscomb). (Pkt. 10c) (¼ oz. 25c). Mixed. The red and yellow flower heads resemble rooster's comb. Plants 2½ feet.

195A—Plumosa (Feathered Cockscomb). (Pkt. 10c) (¼ oz. 25c). Mixed. Bears silky feathery

197A—Scarlet Plume. (Pkt. 10c) (¼ oz. 25c). Deep scarlet plumes. Compact plants.

198A—Crested Cockscomb Dwarf. (Pkt. 10c) (¼ oz. 30c). Plants 10 inches with large heads or combs of many fine shades of yellow, orange, crimson, rose and purple.

CENTAUREA CYANUS. See Bachelor Button, page 40.

CENTAUREA IMPERIALIS. See Sweet Sultan, page 51.

CHRYSANTHEMUM CARINATUM. Showy flowers of easy culture, fine for cutting. Sow seed in May. For earlier blooms sow seed indoors and transplant to 10 inches apart.

199A—Eastern Star. (Pkt. 10c) (¼ oz. 35c). Large, single, light yellow chocolate center.

200A—Yellowstone. (Pkt. 10c) (¼ oz. 35c). Favorite chrysanthemum for cutting. Flowers large, double, sulphur yellow.

201A—Painted Daisy Merry Mixture. (Pkt. 10c) (¼ oz. 15c). Single. Plants 2½ feet, strong stems, profusion of daisylike flowers mostly in shades of yellow, orange, scarlet, white with 2 zones of contrasting darker colors encircling the center.

202A—Donnits Hybrids Double Mixed. (Pkt. 10c) (¼ oz. 30c). Flowers golden yellow, white, and scarlet daisy like flowers.



PAINTED DAISY
Single Annual

CLARKIA. A very pretty and graceful plant. Bushy light green foliage. Blooms early and freely with quantities of delicately colored double flowers in rosettes. Covering entire stock of the plant. Height 2 feet. Does well in semi-shade.

204A—Choice Double Mixed. (Pkt. 10c) (¼ oz. 25c).

COLEUS. Handsome decorative plant with brilliantly varied colored foliage. Plant in full sun.

205A—Hybrid Mixture. (Pkt. 20c) (1/16 oz. 75c). Large leaves with extraordinary bright colors.

206A—Pride of Montferland. (Pkt. 45c). (1/16 oz. 50c). New strain with large leaves distinguished by its beautiful colors and markings and robust compact growth. Finest strain obtainable.

COSMOS. A strong, tall-growing annual, with bold flowers of exquisite daintiness and airiness, heightened in effect by their foliage setting of feathery green. It is most effective when planted in broad masses or along background border against evergreens or fences. Sow outdoors.

Extra Early Mammoth Single. Graceful 4½ inch sized flowers on long stems 72 days after seeding. Plants 5 feet tall.

207A—Pink.

209A—White.

208A—Crimson.

210A—Mixed.

(Pkt. 10c) (¼ oz. 15c) (½ oz. 25c).

(Continued next page)

COSMOS (Continued)



COSMOS
Radiance

COSMOS EXTRA EARLY SENSATION. Giant flowers 4 to 6 inches across, 10 weeks from seeding, fluted petals. Plants robust, 4½ feet. Excellent for cutting.

211A — Dazzler. (Pkt. 10c) (¼ oz. 25c). Rich deep crimson. Yellow eyed center.

211AA—Radiance. (Pkt. 10c) (¼ oz. 25c). Deep rose overlaid with rich crimson towards yellow eyed center.

212A—Purity. (Pkt. 10c) (¼ oz. 25c). Large pure white.

212AA—Mixed. (Pkt. 10c) (¼ oz. 25c). Rose, crimson and white flowers.

213A—Orange Flare. (Pkt. 10c) (¼ oz. 25c). Grows 3 feet tall with beautiful golden orange blooms 3 inches across.

DAHLIAS. There is a fascination in growing Dahlias from seed as they always produce many new types and colors. They will flower the first season if sown early or started in boxes and transplanted. Protect the tubers over winter in a dry cellar in sand.



DAHLIA
Mignon

213AA—Mignon Mixed. Grows 14 inches. Finest of single dahlias; ideal for bedding and cutting; will give profusion of colors first year if seed started indoors. (Pkt. 10c) (¼ oz. 25c).

214A—Unwin's Hybrids Mixed—Double and semidouble in many charming colors. Plants bushy 20 inches. (Pkt. 15c) (¼ oz. 30c).

215A—Finest Single Mixed. 30 inches tall. (Pkt. 10c) (¼ oz. 25c).

215AA—Finest Double Mixed. 30 inches tall. (Pkt. 15c) (½ oz. 30c)

DAISIES.

216A—African (Dimorphotheca). (Pkt. 10c) (¼ oz. 40c). Is a rare and very showy annual from South Africa. Has daisylike flowers of orange, salmon and white with black central ring.

217A—Swan River (Brachycome). (Pkt. 10c) (¼ oz. 40c). Free-flowering dwarf annuals covered during the greater part of summer with a profusion of pretty many-colored flowers. Suitable for edgings. 9 inches.

Painted Daisy. See Chrysanthemum, 201A.

218A—Datura (Angel's Trumpet). Wrightii. (Pkt. 10c) (½ oz. 20c). An annual very easily grown from seed. Requires very little water. Produces large bushes filled with large white trumpet-shaped flowers.

DUSTY MILLER (Centurea).

219A—Candidissima. (Pkt. 15c) (½ oz. 25c). 10 inches. Thick, broadly cut, silvery white leaves.

220A—Gymnocarpa. (Pkt. 10c) (¼ oz. 25c). Finely divided silver-white leaves of a wooly texture. Attractive for borders and beddings. 15 inches.

EVERLASTING FLOWERS. See Acroclinium, Globe Amaranth, Helichrysum, Statice, and Xeranthemum.

FEVERFEW (Matricaria). Balls Double White

221A—(Pkt. 10c) (¼ oz. 25c). Pretty and neat. Small, double white flowers, being hardy annual, growing 2 feet.

FORGET-ME-NOT MYOSOTIS, VICTORIA. Plants very dwarf, compact, large flowered.

222A—Indigo Blue. (Pkt. 15c) (½ oz. 35c) (oz. \$2.25).

223A—Rose. (Pkt. 20c) (½ oz. 35c) (oz. \$2.00).

FORGET-ME-NOT, CHINESE (Cynoglossum). An easily grown hardy annual of brisk habits. Bears throughout the summer graceful sprays of Forget-Me-Not like flowers. Recommended for beds and borders.

224A—Firmament. (Pkt. 10c) (¼ oz. 20c). Blooms sweet scented dwarf blue.

FOUR O'CLOCK (Marvel of Peru). An easy grown thrifty annual. Plants 2 feet tall with spreading branches; requires plenty of room; bears profusion of red, yellow, pink, lilac, white and variegated flowers which fully open about 4 o'clock in the afternoon.

225A—Mixed Colors. (Pkt. 10c) (½ oz. 20c).

GAILLARDIA PICTA. Sow in April or May. Provide a continual show of bright flowers from early summer until frost. Hardy varieties, see Perennial list.

226A—Lorenziana Double Mixed. (Pkt. 10c) (¼ oz. 30c). Continuous bloom. Orange, yellow, red and rose ball flowers. Plants 1½ feet.

227A—Indian Chief. (Pkt. 10c) (¼ oz. 30c). Copper red flowers with bronze center.

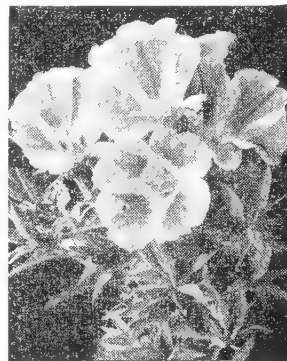
Gaillardia Perennial—See Page 54.

GLOBE AMARANTH (Gomphrena) (Everlasting). Produces small, very showy, everlasting globe-shaped flowers. When about half full bloom, flowers should be cut and hung up to dry. Will hold their color all winter.

229A—Finest Mixed. (Pkt. 10c) (¼ oz. 20c).

GODETIA (Satin Flower). Attractive bushy plant with masses of large colorful blooms throughout the summer and fall. Thrives best in cool moist soil and half shady location.

230A—Sybil Sherwood Dwarf Double. (Pkt. 10c) (¼ oz. 40c). Pink-salmon flowers with white edging which completely hide the foliage.

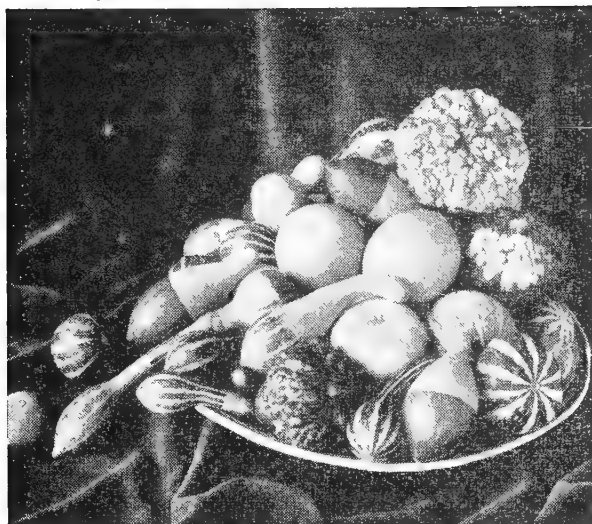


GODETIA

231A—Grandiflora. (Pkt. 10c) (¼ oz. 25c). Mixed double, 2 feet tall, gladiola like flowers in long trusses, excellent for cutting.

Seed treated for sturdy growth.

All Prices Postpaid



MIXED GOURDS

GOURDS (Ornamental). Climber. Quick growing vines; excellent for covering arbors, walls and waste places. Gourds grow in curious shapes and are used for house ornaments.

235A—Finest Mixed Large Varieties. (Pkt. 10c) (2 pkts. 15c) (oz. 20c).

236A—Finest Mixed Small Varieties. (Pkt. 10c) (2 pkts. 15c) (oz. 20c).

HELICHRYSUM (Giant Strawflowers). Beautiful in the garden or when cut, but mostly grown to dry for winter bouquets. If



**HELICHRYSUM
Mixed**

wanted for winter use, cut them when partially open, remove foliage, bunch loosely, and hang with the heads downward in a cool, dry, shady place until dry. Flowers are double, 2 inches and more across, and are freely borne on strong, upright plants from midsummer until fall. 2 to 2½ feet.

237A—Finest Mixed. (Pkt. 10c) (¼ oz. 20c).

HELIOTROPE. These well known greenhouse and bedding favorites are highly valued for their sweet scented flowers.

240A—Madam Bruant. (Pkt. 10c) (¼ oz. 40c). Dwarf, velvet blue, white eye.

241A—Hybrids Mixed. (Pkt. 10c) (¼ oz. 40c). Select large flowers.

HOLLYHOCKS.

242A—Indian Spring Hollyhock. (Pkt. 10c) (¼ oz. 20c). Blooms first year, grows 4 feet tall, stalks covered with a profusion of light pink to almost crimson semi-double crinkly-edged blooms.

HOLLYHOCKS, PERENNIAL, see page 55.

HUNNEMANNIA.

243A—Sunlite. (Pkt. 10c) (¼ oz. 35c). Gorgeous, semi-double, clear, canary-yellow, tulip-shaped flowers. Plants 2 feet. Grows anywhere.

HYACINTH BEAN (Dolichos). A fine climber with clusters of purple and white flowers.

245A—Mixed Colors. (Pkt. 10c) (½ oz. 20c).

JAPANESE HOP (Humulus).

246A—(Pkt. 10c) (¼ oz. 20c). There is no hardier vine than this. Resists drought and insects will not bother it. It is a rapid climber and one of the best for covering verandas, trellises, unsightly fences, etc.

JOB'S TEARS (Coix).

247A—(Pkt. 10c) (¼ oz. 20c). Ornamental grass with broad, cornlike leaves and lustrous slate-colored seeds used for beads. Valuable for winter bouquets with everlasting.

KOCHIA. Resembles a closely clipped ornamental evergreen. The pyramidal bushes are compact, dense and of green color, but in early autumn the whole bush becomes blood-red. Suitable for hedges, backgrounds, or may be grown singly.

249A—Childsi (Burning Bush). (Pkt. 10c) (¼ oz. 20c). Bush compact. 2 feet. Turns red in fall.

250A—Trichophylla (Summer Cypress). (Pkt. 10c) (¼ oz. 20c). Symmetrical oval 3½ feet tall.

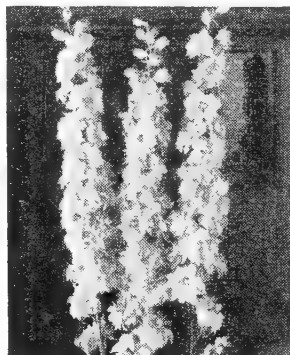
LANTANA. A rapid growing plant. The flowers borne in Verbena-like heads, embracing every shade of pink, purple, orange, and white. Height, about 2 feet. In warm climates may be grown as a perennial.

251A—Hybrid Mixed. (Pkt. 10c) (½ oz. 25c).

LARKSPUR. These free-blooming annuals are very quick growers. Seed planted in the open ground in spring will soon produce beautiful flowers, borne on long, stately spikes. Very effective in beds or masses and furnish fine cutting material. Height, 3 to 4 feet.

252A—Stock Flowered (Tall, Double Mixed). (Pkt. 10c) (¼ oz. 25c) (½ oz. 40c). This variety branches from main stem. Very showy.

Giant Imperial. Flowers double, and carried continuously on stems 3 feet tall, which branch from the base of the plant. Upright and compact.



**LARKSPUR
Giant Imperial**

253A—Blue Bell. (Pkt. 10c) (¼ oz. 25c). Azure blue.

254A—Carmine King. (Pkt. 10c) (¼ oz. 25c). Deep carmine.

255A—Peach Blossom. (Pkt. 10c) (¼ oz. 25c). Light pink.

256A—Lilac Spire. (Pkt. 10c) (¼ oz. 25c). Brilliant lilac.

257A—Gloria. (Pkt. 10c) (¼ oz. 25c). Brilliant deep rose.

258A—White King. (Pkt. 10c) (¼ oz. 25c). Best pure white.

259A—All Colors Mixed. (Pkt. 10c) (¼ oz. 20c).

All Prices Postpaid

Seed treated for sturdy growth.

LINUM 260A—SCARLET FLAX. (Pkt. 10c) (¼ oz. 20c). Brilliantly colored summer annual, grows 14 inches high. Flowers rich crimson.

BLUE FLAX—see Perennials, page 55.

LOBELIA. Easily grown, covered with flowers throughout the season, fine for borders and rock gardens.

261A—Crystal Palace Compacta. (Pkt. 10c) (¼ oz. 30c). Superior strain. Grows 3 to 4 inches in height; leaves and stems dark. Plants a mass of deep blue flowers.

262A—Emperor Williams. (Pkt. 10c) (⅓ oz. 30c) (½ oz. 50c). 4 inches tall, light foliage, gentian blue flower.

263A—Hamburgesa. (Pkt. 10c) (⅓ oz. 30c). Flowers pale blue. Trailing habit excellent for hanging baskets.

LUPINS HARTWEGI. Easily grown, sow seed in April in partial shade, thin out 10 inches.

264A—Giant King Hybrids Mixed. (Pkt. 10c) (½ oz. 25c). 3½ feet tall, produces 4 to 5 long erect spikes with large dark blue, sky blue, rose and white flowers.

Russell Lupin—See Perennials, page 55.

MARIGOLDS. Easily grown annual, sow soon as ground is warm, in sunny location, avoid overcrowding; fine for cutting. The odor which is objectionable to some comes from the leaves, not the blossoms. If allowed to stand overnight in water, odor will disappear, however, a number of varieties are odorless.

LARGE FLOWERED VARIETIES

265A—Mammoth Mum. (Pkt. 15c) (⅓ oz. 50c). The true mum, ball-like, fluffy, light yellow blooms are 3½ in., borne on long stems. Plants upright, 30 in.



MARIGOLD
Mammoth Mum

Color is not unusual. Flowers are sweet-scented, color range is deep orange to light lemon and plants grow 3½ feet tall.

268A—Orange Prince. (Pkt. 10c) (¼ oz. 25c). Bears on long stems large double golden orange balled shape flowers.

269A—Lemon Queen. (Pkt. 10c) (¼ oz. 25c). Identical to Orange Prince except blooms are yellow.

266A—Pot O'Gold. (Pkt. 10c) (⅓ oz. 20c). Blooms early, 100% double, plants dwarf and compact, flowers golden orange, and 4 to 4½ inches in diameter.

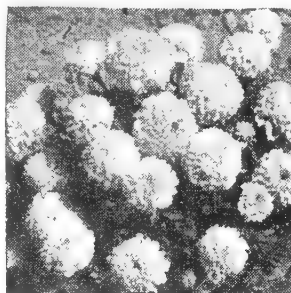
267A—Sunset Giant. (Pkt. 10c) (¼ oz. 25c). The largest marigold yet developed. A flower 5 inches in diameter.

270A—African Tall Double Mixed. (Pkt. 10c) (¼ oz. 25c). Large globular flowers of compact quilled petals orange and yellow. Height 2½ feet.

271A—African Dwarf Double Mixed. (Pkt. 10c) (¼ oz. 25c). Plants 14 inches, flowers light primrose, golden yellow to deep orange.

SMALL FLOWERED VARIETIES

272A—Harmony or Orange Crown. (Pkt. 10c) (¼ oz. 15c) (½ oz. 25c). Excellent bedding and cut flower variety; plants dwarf, compact, 15 inches, free flowering, flowers golden yellow bordered maroon red, scabious shaped.



MARIGOLD
Butter Ball

273A—Yellow Pygme Lilliput. (Pkt. 10c; ¼ oz. 35c). Blooms very early and continuous bloomer until frost. Double, sparkling, light lemon yellow flowers. 1½ inches across, covers the bushy 8 inch plant. Ideally suited for borders, rock gardens, and in display beds.

274A—Golden Ball. (Pkt. 10c) (¼ oz. 25c). Plants 10 inches tall, covered with double dahlia or ball shaped flowers of deepest golden yellow.

275A—Butter Ball. (Pkt. 10c) (⅓ oz. 30c). Grows in a mound 10 inches tall, covered with double canary yellow 1¼-inch flowers. Fine for edging and rock gardens.

276A—Yellow Supreme. (Pkt. 10c) (¼ oz. 25c). All American winner, has large fluffy well rounded delicate sweet fragrant, creamy yellow flowers, plants 2½ feet, branching foliage practically free from odor.

277A—Guinea Gold. (Pkt. 10c) (¼ oz. 25c). Extremely popular and excellent for cut flowers and beds. The 3 inch blooms are brilliant orange fused with gold and have ruffled loosely placed petals. Grows 2½ feet.

278A—Burpee Gold. (Pkt. 10c). Plants odorless, 2½ feet. Flowers 3½ inches, bright orange.

279A—French Dwarf Mixed. (Pkt. 10c) (¼ oz. 20c). Early flowering, plants 1 foot, uniform and bushy, blooms range in color from lemon, yellow, deep orange to maroon-brown.

MIGNONETTE. A well known favorite annual in all gardens. Cultivated for its fragrant flowers, which come quickly. Set in compact spikes. Sow in early spring.

280A—Prizetaker. (Pkt. 10c) (¼ oz. 20c). Dwarf in habit, with enormous thick spikes of brilliant red.

281A—Large Flowering Special Mixed. (Pkt. 10c) (½ oz. 20c). Continuous bloom of sweet-scented flowers on 12 to 15 in. plants.

MOONFLOWER. Grows 10 to 15 feet high, makes nice shade for porches and bears large, trumpet-shaped flowers, richly scented, which bloom in the evening and on cloudy days. Late bloomer.

282A—Finest Quality. (Pkt. 10c) (¼ oz. 25c).

Seed Treated for sturdy growth.

All Prices Postpaid

MORNING GLORY (*Ipomea*). Easily grown. Soil should not be very rich. Plant outdoors when ground is warm. Soaking seed in warm water overnight hastens germination. For earlier blooms start seed indoors in early April and set in garden when frost is past.



MORNING GLORY
Royal Ensigne

285A—Clarke's Early Flowering Heavenly Blue. (Pkt. 10c) (¼ oz. 20c) (oz. 40c). The finest of all morning glories; the earliest flowering variety; flowers measure 3½ to 4 inches across; deep sky blue; shading light golden yellow in throats. Vines grow 15 feet tall and covered with blooms from early summer until frost.

286A—Scarlett O'Hara. (Pkt. 10c) (¼ oz. 25c). Rapid climber. Flowers beautiful rich, dark wine red of good size. Gold Medal All-America.

287A—Crimson Rambler. (Pkt. 10c) (¼ oz. 20c) (oz. 40c). A strong climber, has ruby red flowers with white throat.

288A—Cornell. (Pkt. 10c) (¼ oz. 25c). The early large bright carnelian red flowers edged pure white. Vigorous grower.

289A—Tall Mixed. (Pkt. 10c) (½ oz. 15c) (oz. 20c). Rapid grower. Flowers are bell-shaped, of many bright colors.

290A—Royal Ensigne. (Pkt. 10c) (¼ oz. 25c). Plants 1 foot, covered with small deep, bright, ultra-marine blue morning glory flowers with a white halo and gold throat.

291A—Dwarf Mixed Bush Morning Glory. (Pkt. 10c) (½ oz. 15c). Grows 1 foot tall, bears small trumpet flowers which stay open all day. For beds, borders and rock gardens.

MOURNING BRIDE (*Scabiosa*). Well established garden favorites. They commence to bloom early in July, continuing until frost. The flowers are borne on long stems and last a long time when cut. Fine for beds or borders, growing two feet in height.

292A—Blue Moon. (Pkt. 10c) (¼ oz. 30c). The large full double blooms are a beautiful deep lavender blue, are borne on long stems highly recommended for cutting.

293A—Giant Hybrids Mixed. (Pkt. 10c) (¼ oz. 25c). This mixture is composed of the new giant varieties. Have very large flowers in an unusual number of rare and pleasing colors.

NEMESIA. This is a very pretty annual, of dwarf habit and will make pleasing masses for foreground beds, edging and filling; produces orchid-like flowers, varied in color. Height 1 foot.

294A—Large Flowering Mixed. (Pkt. 10c) (½ oz. 30c).



SCABIOSA
Giant Hybrids Mixed

NASTURTIUM. Of easy culture. Ordinary soil is best as over-rich will cause plants to produce more leaves than flowers. Sow outside late April.

TRAILING VARIETIES

296A—Golden Gleam Double (Semi-trailing). (Pkt. 10c) (½ oz. 15c) (1 oz. 25c). Large fragrant, golden flowers borne above the foliage.

297A—Scarlet Gleam Double (Semi-trailing). (Pkt. 10c) (½ oz. 15c) (1 oz. 25c). Flowers fiery orange scarlet, sweet scented.

298A—Gleam Hybrids Mixed Double (Semi-trailing). (Pkt. 10c) (½ oz. 15c) (1 oz. 25c). Beautiful shades and combinations of cream, white, yellow, orange, red, mahogany, cerise, crimson.

299A—Single Tall Varieties Mixed. (Pkt. 10c) (½ oz. 15c) (1 oz. 25c). Used for trailing over fences, trellis, etc. Wide variety of colors. Valuable for cutting.

BUSH VARIETIES, 1 ft. high

300A—Golden Globe Double. (Pkt. 10c) (½ oz. 15c) (1 oz. 25c). Same as Golden Gleam except plants bushy, globe shaped; heavy bloomer.

301A—Fire Globe Double. (Pkt. 10c) (½ oz. 15c) (1 oz. 25c). Flowers flaming red with dark green leaves. Plants compact, globe.

302A—Double Globe Mixed. (Pkt. 10c) (½ oz. 15c) (1 oz. 25c). Contains yellow, red, primrose, mahogany, scarlet varieties.

303A—Single Bush Varieties Mixed. (Pkt. 10c) (½ oz. 15c) (1 oz. 25c). Contains yellow, red, primrose plants; 1 ft. high; attractive foliage; variety of blooms.

NICOTIANA (*Flowering Tobacco*). A free-flowering annual, blossoms resemble the petunia, and emit a very powerful perfume. As soon as soil is warm, sow in open; easily grown.

304A—Crimson Bedder. (Pkt. 10c) (¼ oz. 30c). Dwarf, compact; 16 inches tall covered with rich crimson petunia like blooms.

305A—Affinis White. (Pkt. 10c) (¼ oz. 25c). Plants 2 feet. Flowers white, sweet scented.

306A—Affinis Hybrids Mixed. (Pkt. 10c) (½ oz. 20c). Includes many shades of rose red and creamy white, delightfully fragrant.

NIGELLA. Easy to grow; quick to bloom; very desirable annual for many purposes, especially graceful as cut flowers. Blooms early and long.

307A—Miss Jekyl (Love in a Mist). (Pkt. 10c) (¼ oz. 20c). Double, cornflower blue.

308A—Double Sorts Mixed. (Pkt. 10c) (¼ oz. 20c). Contains white and shades of blue.

NIEREMBERGIA. Plants form a dense mat 6 inches high, 1 ft. across, thickly covered with beautiful cup-shaped flowers; does best in full sun.

309A—Purple Robe. (Pkt. 25c) (1/32 oz. 75c). Attractive blue flowers, do not fade in sun.

Seed Treated for sturdy growth.



NASTURTIUM
Golden Globe Double

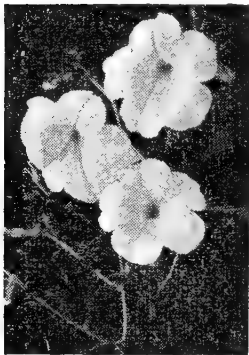
All Prices Postpaid

PETUNIA

PETUNIA. There is no flower more highly prized for use in beds, massing, borders, window-boxes, baskets and vases. Succeeds in almost any soil and produces very fragrant blooms the entire season. Sow thinly in early spring when soil has become warm or for earlier blooms start seeds indoors in pots or shallow boxes of fine soil. Cover seeds very lightly, never more than 4 times diameter of seed.

PETUNIA (Single Bedding). Grows 1½ to 2 feet tall. Produces an abundance of single flowers throughout the summer and fall. Suitable for massing in beds.

320A—Blue Bee. (Pkt. 10c) (½ oz. 30c). The color of Viola Jersey Gem.



PETUNIA
Hybrida White King

326A—Mixed. (Pkt. 10c) (¼ oz. 35c). All colors.

PETUNIA (Hybrida, Single, Dwarf Plants). This is the variety so much used in beds or masses as it grows erect and bushy, 12 to 15 inches high. Blooms freely; flowers are large and showy.

327A—Rose of Heaven. (Pkt. 10c) (½ oz. 35c). Fiery rose, heavy bloomer.

328A—Silver Blue. (Pkt. 10c) (½ oz. 40c). Heavenly blue.

329A—Alderman. (Pkt. 10c) (½ oz. 40c). Deep blue.

330A—Violacea. (Pkt. 10c) (½ oz. 40c). Deep violet blue.

331A—Celestial Rose. Improved Rose of Heaven. (Pkt. 10c) (½ oz. 40c). Large flowers, soft rose.

332A—Snow Ball. (Pkt. 10c) (½ oz. 35c). A sturdy plant with large pure white flowers.

333A—Rosy Morn. (Pkt. 10c) (½ oz. 35c). Light rose. White throat.

334A—Glow. (Pkt. 15c) (½ oz. 50c). Dazzling carmine red.

Fire Chief. (See page 1.)

335A—Mixed. (Pkt. 10c) (½ oz. 30c). All dwarf varieties and colors, well blended.

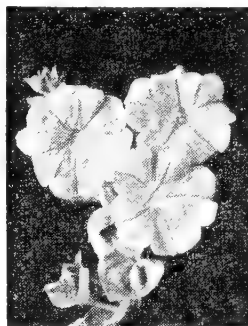
321A—Crimson King. (Pkt. 10c) (½ oz. 30c). Blood red.

322A—Howard Star. (Pkt. 10c) (½ oz. 30c). Improved. Reddish purple with white star.

323A—White King. (Pkt. 10c) (½ oz. 30c). Pure white flowers, bushy plants 1½ ft. tall.

324A—Radiance. (Pkt. 10) (½ oz. 30c). Cerise rose, yellow throat.

325A—Rose King. (Pkt. 10c) (½ oz. 30c). Improved rose pink.



PETUNIA
Celestial Rose

PETUNIA BALCONY (Tall, Branching, Plain Edges, Single). Pendula. Grows 16 to 24 inches; suitable for backgrounds, porch boxes, etc. Large flowers.

336A—Elk's Pride. (Pkt. 20c) (1/16 oz. 75c). Well known favorite, blooms large of deep violet purple forming a five pointed star, lobed edges.

337A—Violet Blue. Dark violet blue.

338A—Rose.

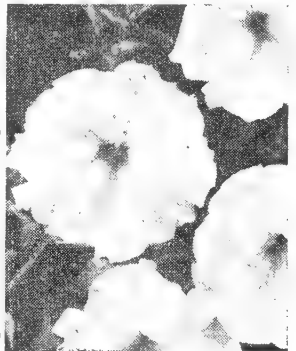
339A—Crimson. Red.

340A—White. Pure white.

341A—Black Prince. Velvety purple.

342A—All Varieties Mixed.

Price on Balcony Petunias. (Pkt. 20c) (1/16 oz. 55c).



PETUNIA
Snow Storm

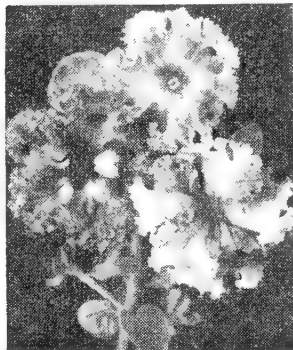
PETUNIA FANCY TYPES (Large, Single). Many

flower growers consider these the most beautiful petunias. Flowers grow large in beautiful colors. Fine for bedding and cut flowers.

343A—Theodosia. (Pkt. 25c) (1/64 oz. 75c). Rose-pink with a clear golden throat; veined deep purple. One of the finest fringed petunias.

344A—Elk's Pride Dwarf Improved. (Pkt. 25c) (½ oz. \$1.40). Same as regular Elk's Pride except plants semi-dwarf, compact.

345A—Snowstorm Improved. Grandiflora. (Pkt. 30c) (1/32 oz. \$1.50). The finest white petunia. A compact grower, covered with glistening 4-inch snow white flowers with shaded yellow throat.



PETUNIA
Fluffy Ruffles

346A—Fluffy Ruffles (Giant Single Fringed). (Pkt. 25c) (1/32 oz. \$1.10). Flowers large and so ruffled and frilled they have the appearance of being double. An excellent mixture of all colors and shades. Grows 14 to 16 inches, covered with blooms.

347A—Giants of California (Fringed). (Pkt. 25c) (1/32 oz. \$1.10).

This is the largest flowered petunia. Flowers fringed, often measure 6 inches across with beautiful color assortment. Mixed colors.

348A—All Double Giant Fringed. (Pkt. 75c) (1/32 oz. \$15.00). Flowers extra large of many fancy and brilliant colors. It is a vigorous grower. Plants semi-tall, branching. The finest thing in petunias. We suggest starting seed indoors in pots or shallow boxes in April.

All Prices Postpaid

Seed Treated for sturdy growth.

PANSIES. One of the most popular flowers and easily grown. Best adapted to partly moist and somewhat shaded places. For large blooms, rich soil is best. Seed sown in spring will bloom in midsummer. For early spring flowers, sow seed in August and protect plants in cold frames or with light litter but do not smother during winter. For Pansy Plants, see page 38.

310A Gold Seal Jumbo Mixed. (Pkt. 10c) (¼ oz. 40c) (½ oz. \$1.50). Very fine bedding and cut flower strain. Large flowers of best colors and markings.

311A—Maple Leaf Canadian Giants. (Pkt. 20c) (⅓ oz. 65c) (½ oz. \$2.25). Plants of this lovely variety are vigorous, low growing; leaves giant size and flowers up to 4 inches diameter.

312A—Swiss Giants—Re-Selected Florist Strain. (Pkt. 20c) (⅓ oz. 65c) (½ oz. \$2.25). An ideal re-selected strain of well known Swiss Giants. Outstanding for size of perfectly round flowers and full range of colors. Highly recommended for critical trade.



**GILLER'S
SUPER GIANTS**

313A—Giller's Super Giants. (Pkt. 25c) (⅓ oz. \$1.00) (½ oz. \$3.50) (oz. \$7.00). Highly recommended for florists and those who make a specialty of growing plants and blooms for commercial trade. Blooms are amazing in size as well as in the large range of colors. Mixed.

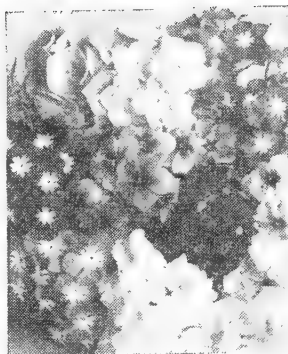
314A—Engelman's Giants. (Pkt. 15c) (⅓ oz. 50c) (½ oz. \$1.75). Very vigorous growing, compact and early flowering, produces huge flowers in a great variety of shades and colors with good percentage of red and bronze shades.

315A—Ice Pansy, Hyemalis. (Pkt. 10c) (⅓ oz. 25c). Early giant flowers, withstands cold, continues to bloom well into the winter, all colors mixed.

316A—All Varieties Mixed. (Pkt. 10c) (⅓ oz. 50c). A good well balanced mixture, very effective in beds.

TUFTED PANSY, see *Viola Cornuta*, page 51.

PHLOX (Drummondii Annual). Being one of the prettiest annuals, phlox should occupy a prominent place in every garden. Of easy cultivation and remarkable for profusion of bloom, which starts early and continues until frost. The rich and numerous brilliant colors produce an elegant effect in beds or borders. Fine for cutting.



PHLOX GRANDIFLORA

351A—Giganta Art Shades. (Pkt. 10c) (¼ oz. 40c). A new strain in Phlox Drummondii flowers, 1 to 1½ inches in diameter. Wonderful range of color in soft art shades.

352A—Star Phlox. (Pkt. 10c) (¼ oz. 35c). Extra fine mixed. Grows 15 inches, bears star flowers of wide range of colors.

PINKS, GARDEN (Dianthus). This satisfactory old-fashioned flower blooms in profusion all summer long. They bear marvelous brilliant and contrasting flowers, which are emphasized by stripes and dots. Sow seed in open in April, will bloom in July until late fall.

355A—Chinensis Double (China Pink). (Pkt. 10c) (¼ oz. 30c). Produce profusion of handsome blooms in clusters on strong stems, flowers extra double of many colors and markings.

356A—Chinensis Single (Indian Pink). (Pkt. 10c) (¼ oz. 25c). Flower heads have unbelievable range of colors.

357A—Laciniatus Double Mixed. (Pkt. 10c) (¼ oz. 35c). Fringed and lacinated carnation like flowers in wide range of colors. Plants semi-dwarf and compact.

POPPIES (Shirley). This is a quick, easily grown flower; blooms few weeks from seed; sow early in open and later thin to 8 inches apart; will not transplant.



**POPPY
Double Shirley**

rooted Begonias in form, and contain an assortment of lovely light shades.

POPPY, CALIFORNIA. *Eschscholtzia*, see page 41. Also see *Perennial Poppies*, page 55
Seed Treated for sturdy growth.

349A — Grandiflora (Tall). (Pkt. 10c) (¼ oz. 35c). Finest mixed. Grows 14 to 20 inches tall, large blooms of many colors and shades.

350A—Nana Compacta (Dwarf). (Pkt. 10c) (¼ oz. 45c). Finest mixed 10 to 12 inches tall. Produces profusion of blooms.

359A — American Legion. (Pkt. 10c) (¼ oz. 20c). Brilliant orange scarlet with yellow anthers.

360A—Single Shirley. (Pkt. 10c) (¼ oz. 20c). Beautiful satin flowers with crumpled petals on long stems. Large range of color.

361A—Begonia Double Flowered Mixed. (Pkt. 10c) (¼ oz. 25c). The flowers resemble the double tuberous

All Prices Postpaid

PRIMROSE EVENING (*Oenothera*).

362A—*Lamarckiana*. (Pkt. 10c) (¼ oz. 20c). Produces yellow flowers; attractive during day-time; gives sweet scent at evening.

PORTULACA (Rose Moss). This little annual is unexcelled for brilliancy among the flowers of low growth. Grows and blooms best in the hot sunlight, sandy soil, carpeting the ground with a mat of foliage, which in the afternoon is hidden with gayest flowers. Sow seed in the open ground.

363A—**Double Mixed Large Flowering.** (Pkt. 15c) (⅓ oz. 35c). 6 in.

364A—**Single Mixed Large Glossy Cup Flowers.** (Pkt. 10c) (¼ oz. 30c). 6 in.

PYRETHRUM.

366A—**Aureum (Golden Feather).** (Pkt. 10c) (½ oz. 25c). Beautiful dwarf gold-leaved plant, flowers white with gold centers. Fine for borders. Easily grown.



**SALPIGLOSSIS
Mixed**

large flowers of wide range colors.

SALPIGLOSSIS (Velvet Flower). Very easily grown. 14 inches high. Flowers showy, large, funnel-shaped, mottled, veined and self-colored. Requires good soil. Blooms early.

367A—**Variabilis.** Mixed. (Pkt. 10c) (¼ oz. 25c). Composed of all colors and combinations.

368A—**Emperor Grandiflora Mixed.** (Pkt. 10c) (¼ oz. 35c). Extra range colors.

SALVIA (Scarlet Sage). A hardy annual blooming the first year from seed. Well-known bedding plants with long, striking flower spikes, displayed with striking effect against the deep, green foliage.

370A—**Splendens.** (Pkt. 10c) (¼ oz. 40c). Early flowering, popular sort. Plants 18 to 20 inches long, scarlet spikes.

371A—**St. Johns Fire.** (Pkt. 25c) (⅓ oz. 45c). The finest Salvia, extra early. Plants erect, dwarf, 12 inches, bears uniform long scarlet spikes.

372A—**Blaze of Fire.** (Pkt. 20c) (⅓ oz. 40c). Early dwarf plants, erect, compact, with large brilliant scarlet spikes.

SCABIOSA. See Mourning Bride, page 46.

SCARLET RUNNER BEAN. Rapid ornamental climber with bright scarlet blooms. Excellent for porches and trellis. Also used as food.

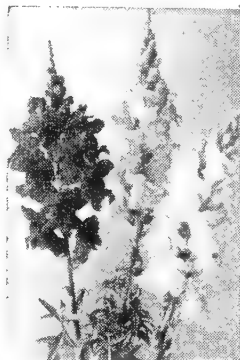
373A—(Pkt. 10c) (¼ lb. 30c) (lb. 90c).

SCHIZANTHUS (Butterfly Flower). One of the daintiest of annuals, of very graceful habit. The flowers are butterfly shape and of a bewildering range of colors, completely covering the plant. Sow early as weather will permit.

374A—**Butterfly Mixed.** (Pkt. 10c) (⅓ oz. 25c).

SNAPDRAGON (*Antirrhinum*). Very satisfactory, easily grown in full sun or partial shade. Either start seed indoors or sow in open when ground is warm.

Maximum (Giant Flowering). This variety produces the tallest spikes and largest flowers, is base branching and produces numerous spikes 2 to 2½ inches across. Excellent for bedding and cutting.



**SNAPDRAGON
TETRA**

376A—**Snowflake.** White.

377A—**Rose King.** Deep rose.

378A—**Copper King.** Golden orange.

379A—**Canary Bird.** Yellow.

380A—**Purple King.** Purple.

381A—**Cerberus.** Scarlet.

382A—**Finest Mixed.**

Any of above:

(Pkt. 10c) (⅓ oz. 30c).
Treated seed.

Majus. Tall, Large Flowered. A fine variety of snapdragons. Produces numerous tall spikes covered with large flowers of an unusual array of color.

383A—**Finest Mixed.** (Pkt. 10c) (¼ oz. 50c).

Semi-Dwarf Large Flowered. Of bushy, compact growth, 15 inches tall, very free bloomer, flowers large. Unusual colors and markings.

384A—**Finest Mixed.** (Pkt. 10c) (⅓ oz. 30c).

385A—**Tom Thumb Snapdragon Mixed.** (Pkt. 10c) (⅓ oz. 40c). Extremely dwarf mixture of beautiful shades and colors. Recommended for rock gardens and borders.

386A—**Tetra Snapdragons.** (See page 1).

387A—**SNOW-ON-THE-MOUNTAIN (*Euphorbia*).** (Pkt. 10c) (¼ oz. 20c). Starts with bright green leaves and as the summer advances the edges become white.

STATICE (*Sinuata*). An easily grown everlasting annual. They prefer a sunny situation. Very satisfactory as cut flowers, also for winter bouquets after being dried.

10c) (¼ oz. 20c) (oz. 30c).

388A—**Market Growers' Blue.** Very best of the cut flower varieties. Deepest blue. Free flowering and ideal for market flowers.

390A—**Suworowi (Russian Rat Tail).** Flowers spike-shaped, rich rose.

391A—**Finest Mixed.** Contains lavender, rose, blue, pink and white.

Prices on all Statice: (Pkt. 10c) (¼ oz. 20c) (oz. 30c).

392A—**STOCKS SWEET SCENTED (*Mattheola*).** 15 in., lilac flowers, which in the mornings, evenings and afternoons emit a delicious perfume. (Pkt. 10c) (¼ oz. 30c).

Seed Treated for sturdy growth.



**STATICE
Market Growers'
Blue**

All Prices Postpaid

STOCKS TEN WEEKS. Desirable for cut flowers and bedding. To secure early flowers, start seed in window boxes or under glass in March or April, and transplant to the open ground in the middle of May. Do best in rich soil and in cool locations. Stocks never run entirely double.

394A—Early Giant Imperial or Bismarck. (Pkt. 10c) (½ oz. 25c). Exquisite, well-rounded, large fully double blooms on long stems. Valuable for garden and greenhouse forcing. 2 to 2½ ft. tall.

395A—Dresden Perpetual or Giant Perfection. (Pkt. 10c) (¼ oz. 35c). Large spikes of frequent double flowers in wide range of color, 1 to 1½ feet. Fine for florists. Biennial in mild climate.

396A—Ten Weeks Dwarf German. (Pkt. 10c) (¼ oz. 30c). Double and Single Mixed. A choice strain containing a high per cent of doubles.

SUNFLOWER. Thrive in any sunny location.

397A—Sun Gold. (Pkt. 10c) (½ oz. 35c). Fully double, golden yellow, Chrysanthemum-like flowers, 4 inches across; plants 4 feet.

SWEET PEAS.

CULTURE: Sweet Peas like rather cool soil and can be grown in partial shade. Ground should be worked to a depth of 1 ft. Mix with soil 1 lb. Soiltone fertilizer to 5 ft. of row. Plant seed 1 oz. to 10 ft. in a trench 5 in. wide, 3 in. deep. Cover seed firmly with 1 in. pulverized soil. Plant anytime from middle of March to 20th of April. After plants are 3 in. high, cultivate, scatter a little more fertilizer alongside of plants and fill trench with soil. After vines are 1 ft. high, give first dusting of 2 parts sulphur, 1 part Vapatone, repeat in 10 to 20 days. Keep soil moist, flowers picked.

EARLY FLOWERING SPENCERS. Bears an abundance of large, waved flowers on long stems 2 to 3 weeks earlier than other varieties, a very satisfactory variety to plant.

BLUE

- 1E—Princess Blue. Light Blue.
- 2E—Tahoe. Bright clear deep blue.
- 3E—Mariner. Clear mariner blue.

CERISE

- 4E—Cavalcade. Golden cerise. White ground.
- 5E—Sequoia. Pink cerise.

CRIMSON

- 7E—Top Sergeant. Rich crimson.
- 8E—American Beauty. Color American Beauty Rose.

LAVENDER

- 9E—Rhapsody. Rosy lavender. Large flowers.
- 10E—Fragrance. Large clear lavender.

ORANGE

- 11E—Fiesta. Glowing orange cerise.
- 12E—Treasure Island. Golden orange.

PINK AND ROSE

- 13E—Bridesmaid. Silvery pink.
- 14E—Sweet Briar. Rose pink.
- 15E—Laddie Improved Rose. Large bright rose.
- 16E—Mrs. H. S. Reddick. Brilliant flesh pink.

SWEET PEAS (Continued)

WHITE

17E—Hope. White.

Above Straight Colors: (Pkt. 10c) (½ oz. 20c) (oz. 30c) (¼ lb. \$1.15) (lb., \$3.90) postpaid.

MIXED

18E—Mixed Early Flowering Spencers: (Pkt. 10c) (½ oz. 15c) (oz. 20c) (¼ lb. 65c) (1 lb. \$1.90) postpaid.

MID-SEASON FLOWERING

CUTHBERTSON — (Mixed Varieties). Remarkable new immediate flowering type, blooming between the early and late or summer varieties, of strong heat resistance and vigorous growth. (½ oz. 10c) (oz. 20c) (¼ lb. 75c) (lb. \$2.60).

Cuthbertson, Straight Colors. See page 1.

LATE FLOWERING

SUMMER or LATE FLOWERING SPENCERS. This is the vigorous growing standard variety which has been grown for over 30 years; however, lately many new and improved varieties have been bred, the best of which we list below. Will start blooming late in June.

Price on all Straight Colors: (Pkt. 10c) (oz. 20c) (¼ lb. 75c) (lb. \$2.60) postpaid.

BLUE

- 30L—Capri. Light blue. vigorous.
- 32L — Flagship. Deep navy blue.

CARMINE

- 33L—Carlotta. Carmine rose.

CERISE

- 34L—Grand Slam. Rich fiery cerise. Extra large.
- 35L—Maytime. Carmine cerise shaded salmon.

CREAM AND CREAM PINK

- 36L—Grand National. Deep cream.

PINK

- 37L—Discovery. Brilliant chamois pink.
- 38L—Elstree. Soft pink.

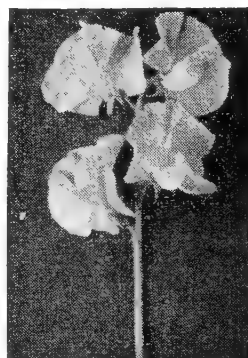
CRIMSON

- 39L—Red Rover. Rich deep crimson.

LAVENDER

- 40L—Flora. Rose lavender.
- 41L—Highlander. Large clear lavender.
- 42L—King Lavender. Pure lavender.

Also see next page



Late Flowering
Spencer

All Prices Postpaid

SWEET PEAS—Late Flowering Spencers (Continued)

PURPLE

43L—Vista. Large flowered purple.

ROSE

44L—Bonnie Brier. Large rose pink.

SALMON

45L—Patricia. Rich golden salmon.

46L—Crony. Soft golden salmon.

SCARLET

47L—Welcome. True scarlet.

48L—Hollyberry. Rich scarlet cerise.

WHITE

49L—Snow White. Large waved white.

MAROON

50L—Black Diamond. Dark maroon.

51L—Loch Lomond. Giant red maroon.

ORANGE

52L—Tangerine (Improved). Glowing orange.

54L—Golden Wings. Deep orange.

55L—Princess Royal. Pure orange.

PICOTEE

57L—Youth. Large white-pink picotee.

58L—Sweet Afton. Picotee edged rose.

Prices Above Varieties: (Pkt. 10c) (oz. 20c) (¼ lb. 75c) (lb. \$2.50) postpaid.

MIXED

59L—Late Flowering Spencer Mixed. This mixture includes all the Spencers we describe above, besides many other varieties to make a well balanced array of color and beauty. (½ oz. 10c) (oz. 15c) (¼ lb. 50c) (lb. \$1.80) postpaid.

SWEET SULTAN (Giant Imperialis Centaurea). Very satisfactory for garden decoration and cutting. They bloom freely for many weeks during the summer in partly shaded places. The large,

long stemmed, sweet-scented flowers are exquisitely fringed and most graceful in appearance. Three feet.

400A—Purple.

401A—Suaveolens. Yellow.

402A—Brilliant. Rose.

403A—Lavender.

404A—Amaranth Red.

405A—Mixed.

Any of above: (Pkt. 10c) (¼ oz. 20c) (oz. 50c).



**ANNUAL
SWEET WILLIAM**

SWEET WILLIAM. Annual variety, producing large heads of beautifully-colored, sweet-scented flowers in abundance. Hardy, easily grown, flowering the first year from seed; 1½ feet high.

409A—Finest Annual Mixed. (Pkt. 10c) (¼ oz. 25c).

TITHONIA (Flower of the Incas).

410A—Torch. (Pkt. 25c). A new 1951 All America, early, 2½ feet tall, blooms from August till frost. Orange red, single dahlia-like flowers charming for cutting.

VERBENA DWARF COMPACTA. Plants grow 6 to 7 inches tall, 10 inches across. Excellent for bedding, edging, and rock gardens.

412A—Violet Bouquet. Violet blue.

413A—Dwarf Compact. Mixed.

Any of above: (Pkt. 10c) (¼ oz. 30c).

VERBENA HYBRID.

Colorful dwarf plants, ideal for edgings, ground cover, rockeries, porch boxes and cutting. The flowers are borne in large trusses from midsummer until late fall. Plant in a sunny location.



VERBENA

Verbena Mammoth.

Extra large flowering.

414A — Snowball.

Giant white.

415A—Dark Blue. With white eye.

416A—Beauty of Oxfords. Pink and rose shades.

417A—Doneborg. Scarlet, white eye.

418A—Spectrumred. Intense red without eye.

419A—Mixed.

Any of above: (Pkt. 10c) (¼ oz. 35c).

For plants see page 38.

VIOLA CORNUTA or TUFTED PANSIES. Flowers smaller than pansies and more persistent. Easily grown, blooms all summer if faded blossoms are picked. Bloom first year from seed but with some protection over winter will bloom second year.

420A—Lord Nelson. (Pkt. 10c) (¼ oz. 45c). Large flowered. Violet purple.

421A—Blue Perfection. (Pkt. 10c) (¼ oz. 35c). Large flowered blue.

422A—Chantreyland. (Pkt. 15c) (½ oz. 40c). Pure apricot.

423A—Yellow Gem. (Pkt. 10c) (½ oz. 40c). Pure yellow, compact.

424A—Jersey Gem or Blue Gem. (Pkt. 20c) (½ oz. 60c). Flowers rich, pure violet; compact.

425A—Gold Seal Mixture. (Pkt. 10c) (½ oz. 35c).

A fine mixture of 14 different colors and sorts.

426A—Arkwright. (Pkt. 15c) (½ oz. 60c). Rich crimson with dark eye.

WALLFLOWER.

428A—Annual Double. (Pkt. 10c) (½ oz. 40c).

Flowers very fragrant, of rich reds and yellows. Plants 18 inches. Sow seed early spring indoors, set out 18 inches apart. In mild climate or when well protected will bloom 2 years.

XERANTHEMUM. A popular flower of the everlasting class, blooming freely in common soil. Plant is of very compact habit.

430A—Double Mixed. (Pkt. 10c) (½ oz. 20c).

Seed Treated for sturdy growth.

All Prices Postpaid

Zinnias - Many Sizes and Types

All Prices Postpaid

ZINNIAS (Youth and Old Age). Few flowers are so easily grown; they require but little attention. They are heat-loving plants. Seed should not be sown until ground and atmosphere are warm to get most completely double flowers. Grow in a rich soil in a sunny spot. Water freely. They bloom abundantly and continuously throughout the entire season.

DAHLIA FLOWERED ZINNIA. Plants grow 2 to 3 feet tall, strong, robust, bearing many large fully double flowers, often measuring 6 inches in diameter, with petals closely imbricated, resembling Show Dahlias.

434A—Canary Bird. Rich canary yellow.

435A—Crimson Monarch. Deep crimson, flowers very large.

436A—Dream. Deep rosy lavender.

437A — Exquisite.
Light rose, deep rose center.

438A—Golden Dawn.
Golden yellow.

439A—Golden State.
Orange.

440A — Illumination.
Deep rose self.

441A—Oriole. Orange and bicolor.

442A — Polar Bear.
Large creamy white.

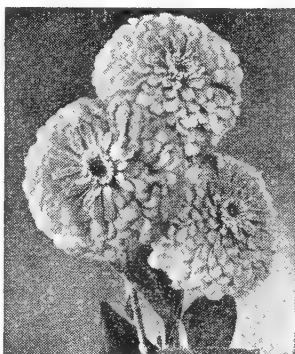
443A—Purple Prince.
Deep purple.

444A—Scarlet Flame. Bright scarlet.
Straight colors: (Pkt. 10c) (¼ oz. 25c) (oz. 70c).

445A—Finest Mixed. (Pkt. 10c) (¼ oz. 20c) (oz. 50c).

Any 7 Pkts. (55c) (¼ oz. each \$1.25).

GIANTS OF CALIFORNIA ZINNIA. Plants grow 3 to 4 feet tall, flowers very large, 5 to 6 inches across. The petals are more loosely placed than in the Dahlia Flowered type of zinnia and the flowers themselves are more flattened. Ideal for cutting.



**ZINNIA
California Giant**

448A — Crimson Queen.
Rich crimson.

449A—Brightness. Bright pink.

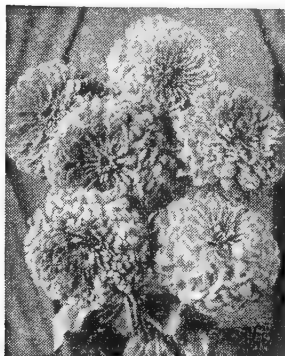
450A — Golden Queen.
Golden yellow.

451A—Lavender Queen.
Deep rosy lavender.

452A — Violet Queen.
Deep purple.

453A — Purity. White, best white in zinnias.

454A—Grenadier. Bright dark red.



**ZINNIA
Dahlia Flowered**

457A—Miss Willmott. Soft rose pink.

Straight colors: (Pkt. 10c) (¼ oz. 25c) (oz. 70c).

458A—Finest Mixed. (Pkt. 10c) (¼ oz. 20c) (oz. 50c).

Any 7 above Pkts. (55c) (¼ oz. each \$1.25).

SHAGGY GIANTS. Distinct from the zinnias. Outer petals long and large, has a semi-globular crown resembling annual Scabiosa, and plants grow about 2½ feet high.

459A—Mixed. (Pkt. 10c) (¼ oz. 25c) (½ oz. 40c).

EARLY WONDER. Earliest of all zinnias for short season locations. Plants 20 inches tall; flowers 3 to 4 inches on long stems.

460A—Mixed. (Pkt. 15c) (⅓ oz. 25c).

ZINNIA FANTASY. Flowers with bright shades of red, orange, pink and cream; 3 to 3½ inches across, petals are narrow tubular and beautifully twisted, giving them a shaggy, graceful appearance.

461A—Mixed. (Pkt. 10c) (¼ oz. 20c) (oz. 50c).

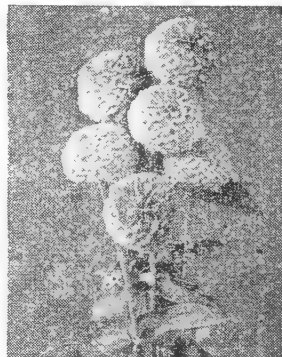
CUPID ZINNIA. Plants only 12 to 15 inches tall, flowers very small, double button-like flowers.

462A—(Pkt. 10c) (¼ oz. 25c) (oz. 50c).

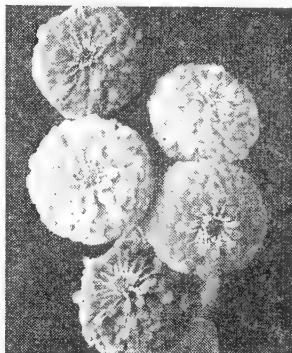
**LILLIPUT or POMPON
DOUBLE ZINNIA.**

These compact little plants are fairly covered with tiny, very double flowers about 1¼ inches in diameter, which bloom all summer until late in the fall and come in a pleasing range of color.

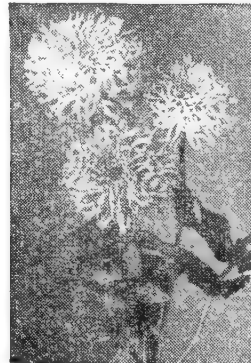
463A—Mixed. (Pkt. 10c) (¼ oz. 25c) (oz. 50c).



**ZINNIA
Lilliput or Pompon**



**ZINNIA
Early Wonder Mixed**

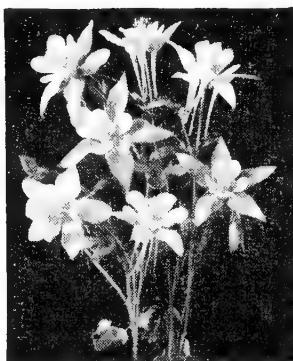


**ZINNIA
Fantasy**

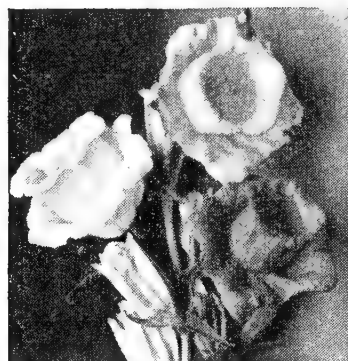
Perennial and Biennial Flower Seed



ANCHUSA, Dropmore



AQUILEGIA (Columbine)
Mrs. Scott Elliott's Hybrids



CAMPANULA
(Cup-and-Saucer)

These produce plants which live from year to year and increase or multiply. A few exceptions are the biennials as *Myosotis*, *Bellis*, *Campanula*, *Foxglove*, which bloom second year and then die.

CULTURE. The seed is generally started outdoors from June to September, and the young plants are either set in their permanent places in the fall and given light protection the first season, or carried over the first winter in a cold frame and set out the following spring.

1B—ACHILLEA (YARROW). (Pkt. 10c) (1/8 oz. 40c) (1/2 oz. \$1.50)
3 to 5 feet. Blooms June to September. Large yellow orange flower heads; strong stems.

2B—ALYSSUM, Saxatile Compactum. (Pkt. 10c) (1/4 oz. 30c) (1 oz. \$1.00)
Clusters of golden yellow. Plants spreading habit; silver gray foliage. Height 10 inches.

4B—ANCHUSA ITALICA, Dropmore. (Pkt. 10c) (1/4 oz. 20c) (1 oz. 60c)
Tall spikes of rich gentian-blue blooms from June to September, on 4 to 5-foot stately plants. For other varieties see Annual list.

5B—ANCHUSA, Myosotidiflora. (Pkt. 20c) (1/8 oz. 50c) (1 oz. \$3.50)
Sprays of clear blue Forget-me-not flowers on round-leaved plants. Height 12 inches.

7B—ANTHEMIS TINCTORIA PERRY VARIETY. (Pkt. 10c) (1/4 oz. 25c) (1 oz. 75c)
A profusion of deep yellow daisy flowers; excellent for cutting throughout summer; 2 foot plant, elegant foliage; will bloom first year if the seed is started indoors early.

8B—AQUILEGIA (COLUMBINE), Rocky Mountain. (Pkt. 10c) (1/8 oz. 25c)
Very beautiful perennial, native of Colorado. Color ranges from light to dark blue, cream centers.

9B—AQUILEGIA COERULEA, Mrs. Scott Elliott's Hybrids. (Pkt. 15c) (1/8 oz. 40c) (1 oz. \$2.75)
A mixture of delightful shades including many soft pastel tones. The large flowers with broad guard petals and very long spurs are gracefully poised on long stems, on 3-foot plants.

10B—AQUILEGIA, Double Finest Mixed. (Pkt. 10c) (1/4 oz. 25c) (1 oz. 65c)
An extra selection of all finest long and now spurred varieties.

11B—AQUILEGIA, Single Mixed. (Pkt. 10c) (1/4 oz. 20c) (1 oz. 40c)
Beautiful combination of all single varieties.

14B—AUBRIETIA, Bougainvillei. (Pkt. 15c) (1/8 oz. 40c) (1 oz. \$2.50)
Dwarf creeping plant for carpeting beds or rock gardens. Beautiful delicate deep blue flowers.

BELLIS (ENGLISH DAISY).
Bright, colorful double flowers, popular for spring bedding plants. They succeed best in a medium moist soil, fail in dry soils and hot positions. Set plants 4 to 6 in. apart and protect lightly over winter.

15B—BELLIS (ENGLISH DAISY), Monstrosa. (Pkt. 15c) (1/8 oz. 50c) (1 oz. \$3.00)
Extra double giant full centered flowers; petals quilled; plants compact.

16B—BELLIS (ENGLISH DAISY), Etna. (Pkt. 20c) (1/8 oz. 50c) (1 oz. \$2.75)
Has dark wine red quilled petals surrounding a golden yellow center.

17B—BELLIS (ENGLISH DAISY), Super Giants. (Pkt. 25c) (1/8 oz. 80c) (1/2 oz. \$3.00)
Special selection of English Daisies. Large, beautiful flowers, 2 inches across, extra double; plants compact, 6 inches high. In straight colors of red, pink, white or mixed.

20B—CAMPANULA (CUP-AND-SAUCER), Medium Calycanthema Mixed. (Pkt. 10c) (1/4 oz. 40c)
Biennial, erect-growing 2 1/2-foot plants, covered with large cup-and-saucer-flowers.

21B—CAMPANULA (CANTERBURY BELLS), Deans Double and Single Mixed. (Pkt. 10c) (1/4 oz. 25c) (1 oz. 75c)
A very showy biennial with branching 2 1/2-foot plants bearing spikes of bell-shaped blossoms in variable coloring. For other varieties see Annual list.

22B—CANDYTUFT, Sempervirens. (Pkt. 15c) (1/8 oz. 40c) (1 oz. \$1.50)
The most commonly grown of all. The beautiful, pure white flower-heads form a sheet of bloom completely covering the dark green foliage. Excellent for edging and for rock-gardens. Height 10 inches.

For other varieties see Annual list.
23B—CARNATION GRENADIN. (Pkt. 15c) (1/8 oz. 35c)
Exceedingly strong mixture of double flowers, biennial.

Perennial and Biennial Flower Seed

24B—CARNATION—HARDY BORDER DOUBLE MIXED.

(Pkt. 15c) (1/8 oz. 40c)

Especially suited for outdoor culture. A mass of large, double flowers on long wiry stems.

Also see Annual Carnation, page 42.

25B—CENTAUREA (BLUE MONTANA), Hardy Cornflower.

(Pkt. 10c) (1/4 oz. 25c) (1 oz. 65c)

Lovely, clear, deep blue resembling annual Bachelor Button but larger. 2 feet. See Annual list.

26B—COREOPSIS, Grandiflora Lanceolata.

(Pkt. 10c) (1/2 oz. 15c) (1 oz. 30c)

Large golden yellow flowers, splendid for cutting.

27B—COREOPSIS SUNBURST DOUBLE.

(Pkt. 10c) (1/4 oz. 30c)

Early large golden yellow double flowers, fine for cutting.

28B—DAISY SHASTA (CHRYSANTHEMUM), Hybridum.

(Pkt. 10c) (1/4 oz. 30c) (1 oz. 60c)

Extra large pure white flowers on long stiff stems. The best Shasta Daisy.

DAISY ENGLISH. See Bellis.

29B—DELPHINIUM, Belladonna Hybrids.

(Pkt. 10c) (1/8 oz. 30c) (1 oz. \$1.50)

Very free flowering. This extra-select strain comes in clear turquoise and other delightful shades of light and dark blue, on 4-foot plants.

30B—DELPHINIUM, Bellamosum Improved.

(Pkt. 10c) (1/8 oz. 30c) (1 oz. \$1.50)

Uniform in color with spikes 2 1/2 inches across. Each dark blue floret has a white bee. Grows to 3 1/2 ft.

31B—DELPHINIUM DOUBLE HYBRID MIXED. All Varieties Mixed.

(Pkt. 10c) (1/8 oz. 25c) (1 oz. \$1.40)

32B—DELPHINIUM, Pacific Giants. Blue, lavender, violet shades mixed.

(Pkt. 20c) (1/8 oz. 45c) (1 oz. \$2.75)

A remarkable strain; flowers extremely large borne on long spikes; plants 5 feet tall.

34B—DIGITALIS (FOXGLOVE), Shirley.

(Pkt. 10c) (1/4 oz. 25c) (1 oz. 80c)

Extra large bell-shaped flowers; wide range of beautiful colors from white and shell-pink to deepest rose, many delightfully blotched or spotted with crimson and maroon. Grow about 6 ft. tall with flowering spikes often 3 ft. in length. These are called biennials. For continuous plants sow every

DIANTHUS HARDY GARDEN PINKS. Often called grass or clove pinks.

Old fashioned fragrant garden pinks. fine for perennial borders or rock gardens. Also see Annual Pinks page 48.

35B—SINGLE MIXED PLUMARIUS.

(Pkt. 10c) (1/4 oz. 20c) (1 oz. 45c)

Large fringe-edged flowers, many colors.

36B—DOUBLE SCOTCH MIXED PLUMARIUS.

(Pkt. 10c) (1/4 oz. 35c)

Double fringed flowers, wide arrangement of colors, fine for cutting.

EVERLASTING SWEET PEAS. See Lathyrus.

FORGET-ME-NOT. See Annuals page 43.

FOXGLOVE. See Digitalis.

37B—GAILLARDIA (BLANKET FLOWER), Grandiflora.

(Pkt. 7c) (1/4 oz. 20c) (1 oz. 55c)

Bloom until late in the fall. Flowers scarlet and orange. While this is a hardy perennial, it will bloom the first year from early planting. Height about 1 1/2 feet. All colors mixed.

38B—GAILLARDIA, Portola Hybrids.

(Pkt. 10c) (1/4 oz. 30c) (1 oz. 70c)

Large flowers, often 4 in. across, of bronze-red-scarlet intensified by golden yellow petal tips, 2 1/2 feet.

40B—GYPSOPHILA (BABY BREATH), Paniculata Single.

(Pkt. 10c) (1/4 oz. 20c) (1 oz. 50c)

Tiny white single flowers on strong thread like stems. Plants 3 feet, large, bushy. For other varieties see Annual list.

41B—GYPSOPHILA (BABY BREATH), Paniculata Double.

(Pkt. 20c) (1/8 oz. 40c) (1 oz. \$2.00)

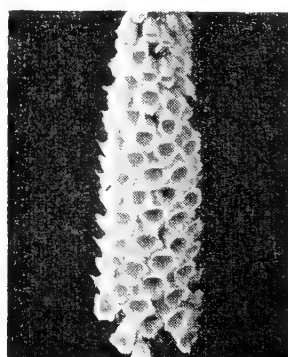
Forms 2 1/2 ft. sphere-shaped bush plant; feathery pinnacles bearing starry, mostly double, white flowers.



COREOPSIS
Sunburst Double



SHASTA DAISY

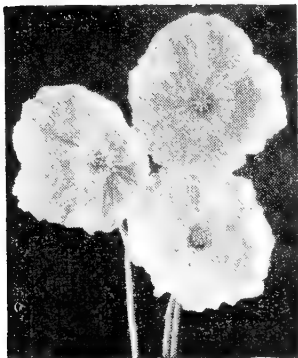


DIGITALIS
(Foxglove) Shirley



DELPHINIUM
Pacific Giants

Perennial and Biennial Flower Seed



POPPY, Iceland

HOLLYHOCK. Are most striking when seen in groups or long rows against evergreen hedges, shrubbery, etc., and in their turn form a very fine background for plants of lower growth. Seed sown in late spring or early summer will bloom profusely the next year.

43B—HOLLYHOCK. (Chater's Extra Double Mixed). (Pkt. 10c) (1/8 oz. 25c) (1 oz. \$1.75)

Tall spikes 7 feet high. Closely set with double showy flowers of beautiful colors.

44B—HOLLYHOCK, Single Mixed.

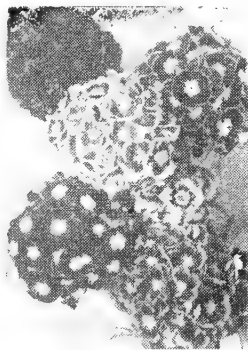
(Pkt. 10c) (1/8 oz. 20c) (1 oz. \$1.40)

7 feet tall. All colors mixed.

45B—LINARIA (KENILWORTH IVY) Cymbalaria.

(Pkt. 15c) (1/8 oz. 40c)

Small, lilac-blue flowers on trailing stems. For ground covering, prefers moist soil, shady location.



SWEET WILLIAM
(Single)

46B—LATHYRUS (EVERLASTING PEA), Latifolius.

(Pkt. 15c) (1/4 oz. 30c) (1 oz. \$1.00)

Trailing plant suitable for arches, trellises or rough banks, bearing numerous large racemes of 8 to 10 pink, red and white pealike flowers.

47B—LINUM PERENNE (BLUE FLAX).

(Pkt. 10c) (1/4 oz. 15c) (1 oz. 40c)

2 feet. Has dainty sky-blue flowers on graceful, arching stems. Blooms produced continuously in profusion. For other varieties see Annual list.

48B—LUPINUS, Russell's Mixed.

(Pkt. 10c) (1/4 oz. 20c) (1 oz. 50c)

Beautiful, stately perennials with bold spikes of pea-shaped flowers. They like a warm, sheltered position in well-drained, light or medium, slightly acid soil. Space plants 10 inches apart. Water thoroughly. Bears well-rounded, symmetrical 3-foot spikes, closely set from top to bottom. The 4-foot plants have attractive foliage. In extraordinary color combinations. For other varieties see Annual list.

PINKS. See Dianthus.

53B—PENTSTEMON. Sensation.

(Pkt. 15c) (1/8 oz. 35c) (oz. \$2.50)

Long flowered spikes, brilliant and varied colors. If started indoors in March will bloom freely first year.

55B—POPPY, ICELAND (NUDICALE).

(Pkt. 10c) (1/4 oz. 45c) (1 oz. \$1.60)

Cool moist soil best. An array of brilliant single color flowers on 1 1/2 foot free blooming plants.

56B—POPPY ORIENTAL BRILLIANT.

(Pkt. 10c) (1/8 oz. 30c) (1 oz. \$2.00)

Large fiery red flowers. Plants 30 in. tall.

57B—POPPY, Oriental Mixed.

(Pkt. 15c) (1/8 oz. 40c) (1 oz. \$2.60)

Enormous, brilliant, produces flowers from salmon pink to dark crimson. Often 5 to 6 inches across.

58B—PYRETHRUM HYBRIDUM (PERSIAN DAISY). Large Flower Single. (Pkt. 10c) (1/4 oz. 35c) (1 oz. \$1.15)

Easily grown from seed. Bloom in June. If plants are cut back will bloom later in season. Wonderful for cut flowers. Fernlike foliaged plants are beautiful even when not in bloom. Florists Strain.

59B—PYRETHRUM. Superior Extra Double Mixed.

(Pkt. 15c) (1/8 oz. 50c) (oz. \$3.50)

Prize mixture of all colors, extra double mixed.

60B—STRAWBERRIES ALPINE NEW BARON SOLEMACHER.

(Pkt. 20c) (2 pkts. 35c) (1/8 oz. \$1.25)

A new everbearing strain producing an abundance of dark red elongated berries of unusual flavor half as large as commercial varieties. Easily picked. Plants bush form produced from seed only, makes no runners. Very effective in borders or beds. Also see plants on Page 78.

61B—SCABIOUS. Houses Giant Hybrids Mixed.

(Pkt. 15c) (1/8 oz. 60c)

Deepest marine blue to palest lavender and creamy white on 1 1/2 to 2 ft. plants.

62B—STATICE (Sea Lavender).

(Pkt. 10c) (1/8 oz. 40c)

Caspia. 2 1/2 ft., small lilac flowers on much branched stems.

Latifolia. 1 1/2 ft., large spreading pinnacles of tiny blue-purple flowers.

64B—SWEET WILLIAMS, Double Mixed.

(Pkt. 10c) (1/4 oz. 20c) (1 oz. 50c)

Easily grown, blooms early, produces showy full flower heads composed of numerous individual double blooms. For best results treat as a biennial but will usually reseed itself.

65B—SWEET WILLIAMS, Dwarf Mixed.

(Pkt. 10c) (1/4 oz. 25c) (1 oz. 75c)

Many colors and markings may be found in this mixture. Plants 8 to 10 inches.

66B—SWEET WILLIAMS, Single Mixed.

(Pkt. 10c) (1/4 oz. 15c) (1 oz. 35c)

Many colors and markings will be found in this mixture.

67B—VIOLET ODORATA, The Czar.

(Pkt. 20c) (1/4 oz. 75c)

Double. The true dark purple, sweet scented violet. Plants very hardy. Thrives best in shady place.

70B—WALLFLOWER—FINE DOUBLE MIXED. (Biennial).

(Pkt. 15c) (1/8 oz. 50c)

Long spikes of sweet scented double flowers. In northern states needs some winter protection. Also Annual Wallflowers page 51.

All Prices Postpaid

PERENNIAL FLOWERS

All of our nursery stock has been STATE INSPECTED for diseases

NURSERY STOCK

We have an excellent stock of carefully grown Fruit and Shade Trees, Roses, Shrubbery, Plants, Roots, etc., priced to attract the frugal buyer. However, it is the QUALITY to which we wish to call your particular attention. Our stock is all First Grade or Number One, and includes the varieties which are most popular and do well in our western climate. We therefore feel confident that your requirements will be taken care of to your entire satisfaction. LOW GRADE Nursery Stock is a Poor Investment.

Claims for any cause must be made promptly on receipt of stock. We will not allow any claims after goods have been accepted, or if report is not received by us within 10 days after arrival of goods. If, however, after planting, the stock fails to leaf out and start growing, we will replace for one-half the catalog price, plus postage.

ACHILLEA (Milfoil).

Ptarmica (The Pearl). Double white blooms all summer. Fine for cut flowers. Height 1 to 2 feet.

(Each 29c) (3 for 79c).

Add postage and packing: (Each 6c) (3 for 12c).

ANCHUSA MYOSOTIDIFLORA (RG). Clusters of delicate blue flowers like the Forget-Me-Not. Does well in shady places. Height 10 to 12 inches.

(Each 29c) (3 for 79c).

Add postage and packing: (Each 6c) (3 for 12c).

BLEEDING HEART.

Dielytra Exima (RG). A low growing plant, blooming throughout the summer with bright pink flowers. Should be planted in shady or partially shady location. Height 8 to 12 inches.

(Each 69c) (3 for \$1.90).

Add postage and packing: (Each 6c) (3 for 12c).

Dielytra Spectabilis. (Old fashion Bleeding Heart).

A hardy perennial plant with finely cut foliage. Graceful, heart-shaped, pink and white flowers, early in the spring.

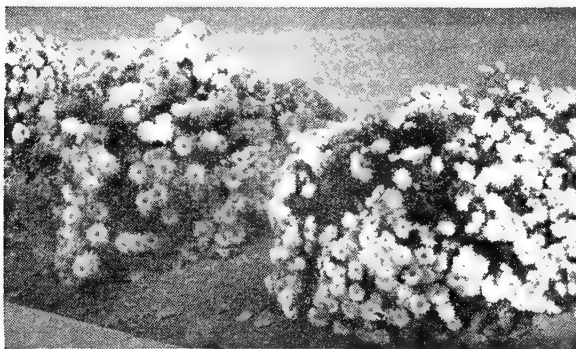
(Each 89c) (3 for \$2.40).

Add postage and packing: (Each 7c) (3 for 15c).

CARNATION. Hardy. Colors, red, pink, white and yellow.

(Each 29c) (3 for 79c).

Add postage and packing: (Each 7c) (3 for 12c).



CUSHION CHRYSANTHEMUM

CHRYSANTHEMUMS. The various varieties of chrysanthemums are unexcelled for use in the flower garden. The large number of types and colors are hardy in our western climates and can be grown easily and rapidly, flowering the first year from plants. By selecting different varieties, flowers may be had from early August until freezing weather.

CHRYSANTHEMUM MAXIMUM (Shasta Daisy).

Alaska Daisy. One of the best Shasta Daisy.

Hardy and a good grower.

(29c each) (3 for 79c).

Double Shasta.

(50c each).

Esther Read. New crested, everblooming type.

(40c each).

Add postage and packing: (Each 7c) (3 for 12c).

CUSHION CHRYSANTHEMUM. Low growing Mums forming a mound of colorful blooms resembling the old-fashioned Azalea. Plants grow 10' to 12 inches high. Start blooming early and continue until frost. Very hardy and easily grown. One plant will produce hundreds of blossoms. Following named varieties:

Bronze Cushion. Rich red bronze, turning to bronzy yellow.

King Cushion. Fiery red, multitude of 2 to 2½ in. blooms.

Pink Cushion. Opens a deep orchid pink, later salmon pink.

Queen Cushion. Snow white flowers with faint yellow center.

Yellow Cushion. Brilliant golden yellow, dense growth, large clumps covered with blooms.

(Each 29c) (5 for \$1.35).

Add postage and packing: (Each 7c) (5 for 12c).

PERENNIAL FLOWERS

GARDEN CHRYSANTHEMUMS. We list a variety of Mums that we feel are perfectly hardy and desirable in any flower garden. By careful selection you may have blooms from July until killing frosts. Good field grown divisions.

Key to Symbols: L—Large; D—Decorative; B—Button; P—Pompon. Height: M—Medium; S—Short; T—Tall.

Avalanche. (L-D-M). (Dreer). The world's best large, creamy white. Everyone's favorite. Excellent for cutting. Sept. 4.

Caliph. Oxblood red. Blooms September to frost.

Charls Nye (L-P-T). Fully double, rich buttercup yellow; one of the best; blooms about Sept. 24.

Chippewa. (L-D-M). Mallow purple. Long stems, 4 in. flowers, sturdy plants to 24 in. tall. Blooms Sept. 10th to hard killing frosts.

Early Bronze. (B). Early blooming pompon or button Mum. Starts blooming in August and at its best in September. Fine garden variety and for cut flowers. 18 to 24 inches tall.

Ember (D-M). Bronze with orange shadings. Decorative type. Blooms October 1st.

Glowing Coals. (D). A new large red which blooms early on long stems.

Harbinger. (D-M). Decorative. Bronze, blooming the middle of September.

Indian Summer. Very good rust color. Fine for cut flowers.

King Midas. (L-D-M). One of the best yellow Korean Hybrids. Starts flowering in August and at its best in September. Flowers about 4 inches across, full double, with a touch of bronze. Branchy growth and very hardy. 2½ to 3 ft.

Lavender Lady. (D-T). Beautiful shade of lavender.

Mrs. J. Findley. Bright yellow blooms. Large, Sept. 5, New English variety.

Mrs. Pierce Dupont. (L-D-T). Hardy plants to 2½ feet tall. Large flowers to 4 inches of a peach to bronze color, in early October to heavy frosts.

Pohatcong. Double pink blooms in September. Hardy and bushy growth. About 3 ft. tall.

Red Velvet. (L-D). Fine velvety crimson decorative type blooming about the 1st of October.

Romany. Reddish bronze. Good cut flower.

Thorpe. (D). Vivid rose. Oct. 10.

Youdath's Vivid. Delf lavender. Decorative about October 5th.

Garden Chrysanthemums. All Varieties.

(Each 50c) (3 for \$1.40).

Add postage and packing: (Each 6c) (3 for 12c).

CLEMATIS, RECTA GRANDIFLORA. Small white flowers June and July. Fine for cut flowers. Grows to 2 feet tall.

(Each 49c) (3 for \$1.30).

Add postage and packing: (Each 6c) (3 for 12c).

COLUMBINE (Aquilegia). One of the first perennials to bloom in the spring. Unsurpassed as a cut

flower, as they bloom over a long season and on long stems. Thrives best in a sandy loam soil, either rock garden or perennial flower bed. Prefers partial shade. Height 2 feet.

Coerula. The native Rocky Mountain variety, must be planted in a shady place; long spurred, blue. 2-year plants.

(Each 39c) (3 for \$1.05).

Add postage and packing: (Each 6c) (3 for 12c).

Crimson Star. A new columbine, striking crimson with white corolla. Good border or cut flower.

(Each 39c) (3 for \$1.05).

Add postage and packing: (Each 6c) (3 for 12c).

COREOPSIS GRANDIFLORA (Double Sunburst).

Bright, golden yellow, double flowers, from June through the season. Valuable for cut flowers. Very hardy.

(Each 29c) (3 for 79c).

Add postage and packing: (Each 6c) (3 for 12c).

DELPHINIUM, Hardy Larkspur. The dominant flower in the perennial flower garden. Will grow in most soils, but you will feel well repaid by planting them in deep, rich soil.

Belladonna. Turquoise blue.

Bellamosa. Large deep blue florets.

All of above: (Each 30c) (3 for 85c).

Add postage and packing: (Each 6c) (3 for 12c).

Pacific Hybrids. A new delphinium, judged as one of the best. Long tapering spikes with huge florets in gorgeous shades. Grows 5 to 7 ft. tall, very hardy and easy to grow. Mildew resistant. Mixed colors of pure white, pink, lavender, blue and dark blue.

(Each 39c) (3 for \$1.10).

Add postage and packing: (Each 10c) (3 for 18c).

DIANTHUS (Pink Plumarius). Blooms all summer. Clove pinks in mixed colors, with a delightful fragrance. Height about 10 to 12 inches.

(Each 29c) (3 for 79c).

Add postage and packing: (Each 6c) (3 for 12c).

GYPSOPHILA (Baby's Breath).

Bristol Fairy. A beautiful double white flowered variety. When in full bloom it forms a symmetrical mass 2 to 3 feet in height of pure white flowers. Cannot be excelled for cutting purposes, especially in combination with highly colored flowers. Can also be cut and dried and used in bouquets long after other outdoor flowers are past.

(Each 89c) (3 for \$2.40).

Add postage and packing: (Each 10c) (3 for 18c).

LUPINES (Russell Lupines). Similar in habit and growth to the common lupine but having more vivid coloring and color combinations. The many hued and long stemmed blossoms are very desirable either as background for the perennial bed or for cut flowers. One-year plants.

(Each 49c) (3 for \$1.40).

Add postage and packing: (Each 6c) (3 for 12c).

HARDY PERENNIAL PLANTS

HARDY PHLOX

Aetna. Clear red.

Africa. Carmine-red with blood-red eye.

B. Compte. Brilliant rich French purple.

Beacon. Cherry red.

Border Queen. Deep watermelon pink.

Bride's Maid. Pure white with large crimson eye.

Champs Elysees. Rich purple crimson.

Colonial. Clear lavender or orchid.

Lavender. Pure lavender.

Morganrood. Deep rose pink.

Mrs. Jenkins. Pure white.

Painted Lady. Silvery pink with red eye.

Pantheon. Clear pink with dark eye.

R. P. Struthers. Rosy carmine with claret-red eye.

Thor. Deep salmon pink.

Von Hockberg. Good red.

Von Lassburg. The largest of all pure whites.

(Each 29c) (3 for 79c) (Doz. \$3.00).

Add postage and packing: (Each 6c) (3 for 12c) (Doz. 24c).

PHLOX (Sublata Rosea) (RG). A pretty creeping type with moss-like evergreen foliage, hidden beneath a mass of blooms early in the spring. Blue or pink.

(Each 29c) (3 for 79c).

Add postage and packing: (Each 6c) (3 for 12c).

PLATYCODON (Balloon Flower).

Grandiflorum. Closely related to the Campanula. Large deep blue flowers all summer on 18-inch stems.

(Each 29c) (3 for 79c).

Add postage and packing: (Each 7c) (3 for 12c).

SCABIOSA (Pin Cushion Flower, Blue Bonnet, Caucasica). Lovely soft lavender blooms from June to September; 18 inches high.

(Each 29c) (3 for 79c).

Add postage and packing: (Each 6c) (3 for 12c).

STATICE (Latifolia, Sea Lavender). Grows 12 to 15 inches high in clumps of thick, leathery foliage, with loose panicles of tiny delicate blue flowers, in heads 15 inches or more across. 3-year plants.

(Each 48c) (3 for \$1.35).

Add postage and packing: (Each 6c) (3 for 12c).

SWEET PEA, PERENNIAL (Lathyrus). Flowers much like the annual Sweet Pea. Can be used as a covering for walls and trellises, and as a border plant. Colors pink, red and white.

(Each 35c) (3 for 95c).

Add postage and packing: (Each 6c) (3 for 12c).

TRITOMA. Perpetual flowering hybrid. Beautiful spikes of delicate hues of red, pink and yellow. Hardy.

(Each 49c) (3 for \$1.40).

Add postage and packing: (Each 6c) (3 for 12c).

HARDY LILIES

ELEGANS ATROPURPUREUM. A good one for bedding, growing 12 to 15 inches. Deep red flowers, shaded crimson, large size. Blooms in June. Plant 4 to 5 inches deep.

(Each 43c) (3 for \$1.19) postpaid.

HENRYII, The Golden Speciosum. Golden yellow flowers in August and September. Plant 6 to 8 inches deep.

(Each 39c) (3 for \$1.05) postpaid.

MADONNA (Candidum). Clear waxey white flowers. On stems to 4 feet. Very fragrant.

(Each 43c) (3 for \$1.19) postpaid.

REGALE. A lily of rare beauty from north-western China. The flowers are white, slightly suffused with pink, creamy yellow throat, and very fragrant. Blooms in July. Plant about 5 inches deep. Large bulbs 6 to 8 inches.

(Each 35c) (3 for 95c) (Doz. \$3.49) postpaid.

SPECIOSUM RUBRUM. Grows 3 to 5 feet tall. Blooms in September of white background and shading from pink to carmine with pink dots. Plant 6 to 8 inches deep.

(Each 69c) (3 for \$1.95) postpaid.

TIGER LILY, Double. An old favorite, easy to grow and very hardy. Grows 3 to 5 feet. Blooms September and October. Large bulbs, 6 to 8 in. Plant about 5 in. deep.

(Each 29c) (3 for 80c) (Doz. \$2.95) postpaid.

LILY-OF-THE-VALLEY. It does best in a shady corner and spreads rapidly. Every year you find more plants. They show early in the spring and are one of the first to bloom. It is very hardy and needs no attention in the fall to carry through the winter.

(For clump of 10 pips. 38c) (10 clumps \$3.25) postpaid.

FERNS

GOLDIE'S WOOD (Aspidium). Hardy evergreen variety. Grows about 2 feet.

MAIDEN HAIR, (Spleenwort Asplenium Tricomane). Does best in shade. Growing to 2 feet. Very attractive native variety. Black stems with green fronds.

OSTRICH PLUME (Onoclea Struthiopteris). Very graceful with finely cut pinnules. Grows 2 to 3 feet.

Your choice of above: (Each 39c) (3 for \$1.05).

Add postage and packing: (Each 6c) (3 for 12c).

BULBS AND ROOTS



Gladiolus

GLADIOLI

One of the most attractive of summer flowering bulbs is the gladiolus. A nice feature of this bulb is the culture. It does not require very much attention and only takes the usual amount of watering that is given any ordinary garden. In setting out the bulbs, try to select a sunny spot of fairly rich soil and spade deeply, then place your bulb firmly 4 to 5 inches from the surface, and about the same distance apart.

Beacon. Scarlet, yellow throat.

Blue Beauty. Blue-violet.

Chamouny. Deep rose, edged with silver.

Elizabeth the Queen. Orchid lavender.

Ethel Cave Cole. Large, light pink.

Fair Angel. Ruffled cream, ivory throat.

Jeanie. Pink with yellow throat.

King Arthur. Ruffled deep lavender.

King Lear. Ruffled, velvety red-purple.

Leading Lady. Cream-white, lemon throat.

Leeuwenhorst. Huge, deep pink.

Margaret Beaton. White, cherry throat.

Margaret Fulton. Coral red.

Max Reger. Light lavender-blue.

Oregon Gold. Ruffled yellow, golden throat.

Oriental Pearl. Giant cream.

Pelegrina. Deep violet blue.

Phyllis McQuiston. Bright pink.

Rosa Van Lima. Shell pink, white markings.

Snow Princess. Best commercial white.

Valeria. Distinctive soft scarlet.

Vredenburg. The purest white.

White Gold. Large cream, golden throat.

Yellow Emperor. Bright yellow.

Your choice of above bulbs: (10 for 89c) (100 for \$6.90) (Add postage and packing, per 10, 7c; per 100, 18c).

NEWER VARIETIES SPECIAL GLADIOLI COLLECTION

Candle Light. Soft peach pink, yellow throat.

Mother Kadel. Rich, deep yellow.

Peach Gold. Rosy peach, golden throat.

Red Charm. Dark velvet red.

Royal Ruby. Glowing ruby red.

Royal Sceptre. Rich magenta.

2 each of the above varieties: (12 bulbs for \$1.35) add postage and packing: (8c).

GLADIOLI MIXTURES

Our Best Mixture, 12 bulbs, 6 to 12 different colors: (Per Mixture 49c) (100 of our Best Mixture \$3.59) (Add postage and packing: Per 12, 7c; Per 100, 18c).

Ordinary Mix, good quality bulbs, but uneven mixture: (Per 50, \$1.60) (Per 100, \$2.90) (Add postage and packing: Per 50, 12c; Per 100, 18c).

CANNAS

In preparing the ground for cannas earth should be spaded at least 2 feet deep and plenty of stable manure mixed in. The roots must be set about 8 to 10 inches from the surface and 2 feet apart, and with little attention, plants will bloom heavily.

City of Portland. 3½ feet. Deep pink; green foliage. Free bloomer.

Eureka. 4 feet. Large creamy-white flowers. Blooms early and freely through summer. Green foliage.

Florence Vaughan. 4 feet. Bright, rich, golden yellow, dotted crimson. Green foliage.

Hungaria. 4 feet. Large heads of peach pink with green foliage. One of the best pinks.

King Humbert. 4 feet. Handsome scarlet flowers. Broad, tropical bronze leaves. Free blooming.

Madam Crozy. 4 feet. Brilliant vermilion-scarlet, yellow-golden edge.

Statue of Liberty. 5 to 7 feet tall. Blazing flame red flowers. Bronze foliage.

The President. 4 feet. Rich, glowing scarlet of immense size bloom. Large green leaves, strong grower.

Wyoming. 5 feet. A beautiful orange color. Bronze foliage.

Yellow King Humbert. 4 feet. Deep rich yellow, spotted and blotched bright red. Green foliage. Occasionally some plants will give a scarlet or scarlet-striped flower.

All varieties, postpaid: (Each 15c) (6 for 85c).

Dahlias for Gorgeous Flowers

On orders of six or more Dahlias we will allow 5% reduction in price. All postpaid.

Culture: Pick a sunny spot if possible and spade well. Do not use too much manure, for a small quantity goes far with the Dahlia. Then lay the root on its side about 4 inches from the surface. In covering, be sure to have the soil packed firmly about the tuber or roots; plant only when the soil is dry, then water sparingly.

Key—(PF), Peony Flowered. (D), Décorative. (C), Cactus. (HC), Hybrid-Cactus. (S), Show.

DAHLIAS.

Adirondack Sunset. (D). A very large, vivid scarlet shading to bright canary yellow at the base of petals.

(Each 75c).

Ailsa Belle (C). Raspberry red with a shade lighter on the reverse. Wonderful as a cut flower, very long stems.

(Each 75c).

Avalon (D). Pure clear yellow; the large flowers are very distinct and pleasing in shape, always full to the center.

(Each 30c).

Baby Keith (D). Peach, amber and rose red profuse bloomer. Ideal for cutting.

(Each 50c).

Bashful Giant (D). One of the largest Dahlias. The immense blooms are excellent for exhibition, the color is apricot with golden shadings.

(Each 30c).

Blue River (D). Very large, bright mauve with decided blue shading. Stems splendid, profuse blooming.

(Each 50c).

California Idol (I.D.). One of the largest yellows grown. Has been and still is a great winner at the shows. Deep flowers with high full centers. Sturdy bush.

(Each 50c).

Capt. Cedarquist (C). Color bright salmon orange, shading into a lighter tone at the tips. Long strong stems. First class cut-flower and exhibition variety.

(Each 75c).

Chemar's Dahliamum (D). Large full apricot formed like a large Mum. Good branching bush with lots of bloom.

(Each \$1.00).

Cherokee Brave (D). Color, dark glowing carmine. Long stiff stems hold the large blooms perfect.

• (Each 75c).

• **City of Buffalo** (D). A real red dahlia. There are no adjectives to fully describe this reddest of all red dahlias. Center of flower is full decorative type. When in full bloom outside edge has slight appearance of cactus dahlia.

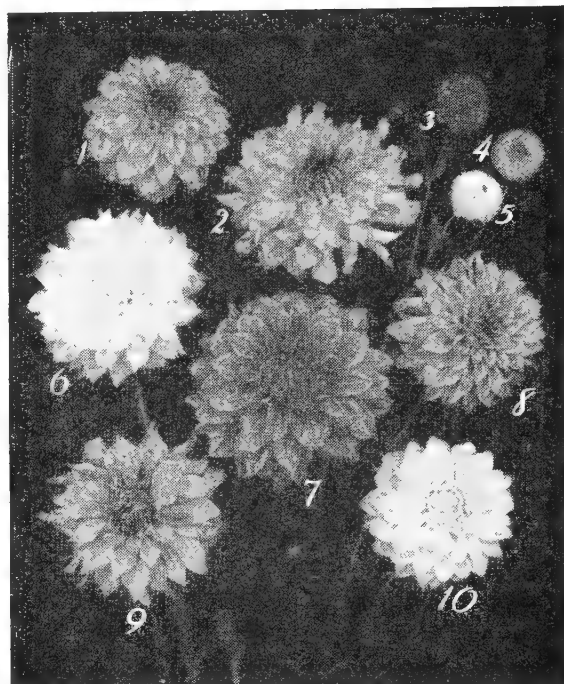
(Each 75c).

Clara Barton (D). Large flowers of a silvery orchid, reverse of petals deep lavender. The general effect is lavender.

(Each 30c).

Clara Carder (D). Cyclamen pink with a sheen of gold.

(Each 50c).



1. Jersey's Beauty
2. Jane Cowl
3. Little Donald
4. Bronze Papoose
5. Joe Fette

7. Jersey's Beacon
8. Mrs. I. de ver Warner
9. Kentucky
10. Jim Moore

6. Avalon

Commando (D). A clear shade of lavender or true phlox purple and very bright. Large clean flowers from 10 to 14 inches and held on long stiff stems. An achievement medal winner.

(Each 75c).

Cometeer (C). Cactus, bronzy gold.

(Each 50c).

D Day (FD). An outstanding light pink cut-flower. Long stems and free-branching prolific habits. One of the best pinks. Cut-flower growers—do not miss this one.

(Each 75c).

Evelyn Chandler (SC). Bright golden orange.

(Each \$1.00).

Gov. Heil (C). A beautiful combination color of orange and burnt orange towards the center, a free bloomer and good grower.

(Each 75c).

Hilda Fioretti (SC). A real find in a pink semi-cactus. A perfect flower on long straight stems.

(Each \$1.00).

Jane Cowl (D). Buff and old gold blending to apricot and rose.

(Each 50c).

Jersey's Beauty (D). A most distinctive Dahlia of a rose pink color.

(Each 50c).

Jersey's Beacon (D). Immense flower of Chinese scarlet, reverse paler, nice stems.

(Each 30c).

DAHLIA COLLECTION \$2.75

We will send postpaid, any ten, your selection, of our 30c each Dahlias, for \$2.75.

In a Variety of Colors and Shapes

- Kemp's White Wonder (HC).** A shaggy white, one of the largest of Dahlias, very robust plant and a good propagator.
(Each 50c).
- Kentucky (D).** A sport of Jersey Beauty. Bronze pink, good stem.
(Each 50c).
- La Reina (D).** Golden Buff. Very good.
(Each 50c).
- Miss San Diego (C).** Tyrian pink with yellow center. Petals deeply lacinated at tips. One of the most outstanding of all cactus dahlias.
(Each \$1.50).
- Mrs. Carl Salbach (D).** Lavender pink.
(Each 30c).
- M. Col. (D).** A beautiful tri-color flower. Yellow at the center shading to orange with silvery white tips.
(Each 50c).
- Mrs. Edison (D).** Large purple.
(Each 75c).
- Mrs. Geo. Leboutillier (D).** One of the very best exhibition reds. Large flowers on long, fine stems. The color is a pleasing shade of deep crimson red. Highly recommended.
(Each 50c).
- Mrs. I. De Ver Warner (D).** Mauve pink.
(Each 30c).
- Nancy Ann Mitchell (C).** Color true, vivid scarlet with buff reverse which shows with revolution of petals. Profuse bloomer, well rounded growth. Foliage fine cut. Keeps well when cut.
(Each 75c).
- Omar Khayyam.** Very large Chinese red shading to bright orange. Strong grower.
(Each 50c).
- Pink Giant (D).** Certainly one of the most beautiful of the new dahlias. Very large flowers of clear, pure pink.
(Each \$1.00).
- Purple Manitou (D).** Extra large, clear purple. A sport from the popular La Grande Manitou; one of the best clear purples.
(Each 30c).
- Rita Wells.** A very large dahlia. Informal decorative to semi-cactus. Grenadine pink on buff.
(Each 75c).
- Sherwood's Peach (D).** Orange apricot of immense size.
(Each \$1.00).

- Town Topic (D).** Magenta purple. Stems extra long, sometimes comes tipped with white.
(Each 75c).
- Tower's Empire (HC).** Graceful deep yellow flowers on clean growing bushes. Light green, lacy foliage.
(Each 50c).
- White King (D).** White, fairly good cut flower.
(Each 30c).
- W. H. T. (D).** Old rose.
(Each 50c).

- POMPON DAHLIAS.** These grow about 3 feet tall with small, formal flowers; excellent for cutting, lasting for days in hottest weather.
- Little Belle.** Deep rose pink.
(Each 30c).
- Morning Mist.** A fine newer variety that promises to be a general favorite both for commercial use and in the garden. The color is a rosy-lavender overlay on white base. It has long, strong stems and is a vigorous grower.
(Each 30c).
- Edith Mueller.** A beautiful two toned variety. Golden-orange at base and salmon-red at petal tips. The flowers are perfectly round and borne on long, strong stems. Very fine.
(Each 30c).
- Little Snow White.** Good white on fine stems.
(Each 30c).
- Mary Munn.** A fine pure lavender.
(Each 30c).
- Rothout.** Deep red and a favorite in this color. Long, strong stem and free flowering. Good commercial red.
(Each 30c).
- Yellow Gem.** Pure yellow, of excellent form and habit. The best of the yellows.
(Each 30c).

DAHLIA COLLECTION \$2.98

We are making a Special Offer of Twelve (12) good roots, our selection, all different colors, no two alike, for \$2.98, postpaid. This collection contains some of our finest varieties of which we have a surplus.

PEONIES

The culture of peonies is very easy and it does not require any certain soil, either sandy or heavy will do. The earth must be spaded deep. A little manure mixed in would not hurt. After your ground is in shape, plant the roots from 2 to 3 feet apart, covering the crown only 1 to 2 inches. Then give them plenty of water for best results. The best of the many varieties are those mentioned below. 3 to 5 eyes.

- (E) denotes Early, (M) Midsummer, (L) Late.
- Baroness Schroeder (L).** Flesh to white.
- Claire Duboise (L).** Satiny pink.
- Duchess de Nemours (E).** Sulphur white.
- Edulis Superba (E).** Bright clear pink.
- Felix Crousse (M).** Ruby red.
- Festiva Maxima (E).** White.

- Karl Rosenfield (M).** Velvety crimson.
- La Perle (M).** Flesh.
- Lord Kitchener (E).** Cherry red.
- Mme. Bramwell (M).** Pink.
- Mme. Breon.** Flesh and lemon.
- President Taft (M).** Pink.
- Richard Carvel (E).** Bright crimson.

Above peonies: (Each 69c) (3 for \$1.90).

Add postage and packing: (Each 10c) (3 for 15c).

We have many varieties not listed above. If interested in lots of 10 or more, please write for prices and varieties.

Choice of red, white or pink peonies, unnamed varieties, good roots. (Each 49c) (3 for \$1.40). Add postage and packing: (Each 10c) (3 for 15c).

MISCELLANEOUS SPRING BULBS

The following bulbs should be started indoors if early blooms are desired and then transplanted out of doors when danger of freezing is past.

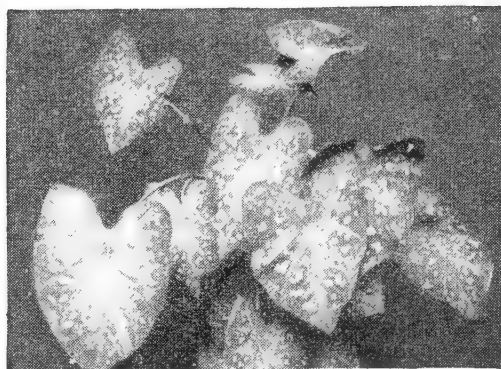
BEGONIAS, Tuberous Rooted. An old time favorite that is fast regaining its old popularity. Can be used as potted plants or in beds out of doors. For early blooms pot them indoors using flat boxes with about three inches of moist peat moss. Place bulbs just below the surface 3 to 4 inches apart. Keep moist and in a well lighted position but not in direct sun. Transplant to pots or out of doors when shoots are about 4 inches tall or as weather permits. Dig them in the fall before freezing weather. It is necessary they be planted in a shady location. Camellia flowering, in colors, red, pink, and yellow, 1¼ to 1½ inch bulbs.

(Each 35c) (3 for 95c) (Doz. \$3.45) postpaid.

TUBEROSES. Grown for their fragrant spikes of heavy waxen flowers. For best results, plant in pots early in season, leave in dark place and transplant to outdoors when weather is suitable. We are offering the most commonly grown, and an old standard of the garden.

Pearl. Dwarf and double. White. Very fragrant.

(Each 15c) (3 for 40c) (Doz. \$1.35) postpaid.



FANCY LEAVED CALADIUM

CALADIUM ESCULENTUM. Sometimes called "Elephant Ear." Very large leaves, dark waxy green bearing a resemblance to elephant's ears, on sturdy plants. Nice specimen for the flower garden.

(Each 25c) (3 for 59c) postpaid.

CALADIUM FANCY LEAVED. Very colorful plant, grows somewhat smaller than Esculentum, but leaves are spotted and veined with brilliant and unusual coloring.

(Each 35c) (3 for 90c) postpaid.

HEDGE PLANTS

Have a Permanent Living Fence Around Your Yard or Garden

PRIVET (Ligustrum). Besides being one of our best hedge plants, various species of privet form interesting groups on the lawn. They are almost evergreen; of dense, compact habit. The flowers are fragrant and are followed by pretty sprays of different colored berries.

AMoor RIVER (L. Amurense). A very hardy northern grown type, vigorously upright and tall growing. The leaves are dark green, somewhat lustrous, tardily deciduous. Makes a strong, bold hedge with quite conspicuous bloom in erect white panicles. 18 to 24 inches.

(Per 100 \$16.50) (50 at 100 rate) (25 for \$4.70).

Add postage and packing per 100, 45c; per 50, 29c; per 25, 18c.

EUROPEAN PRIVET (Vulgare). A very hardy and satisfactory variety. Heavy dark green foliage with white flowers followed by blue-black fruits. Growth is inclined to be more horizontal than some of the other varieties and fills in heavily from the ground up. Plant in single rows 9 to 10 inches apart. 12 to 18 in. 3 cane.

(Per 100 \$17.50) (50 at 100 rate) (25 for \$4.95).

Add postage and packing per 100, 45c; per 50, 29c; per 25, 18c.

IBOTA VICARI, Hardy Golden Privet. Same habit of growth as other Privets but has beautiful golden yellow leaves. Used as hedge or as specimen plants, giving a color contrast from early spring to fall. Of compact growth and can be

trimmed to various shapes as desired. 18 to 24 inch plants.

(Each 79c). Add postage and packing 6c.

(3 for \$2.25) (10 for \$6.90). Add postage and packing per 3, 9c; per 10, 18c.

LODENSE. A low growing privet. Can be used as a low growing hedge or kept cut down to a low height for borders in flower beds or along paths. Suitable in locations where low growing shrubs are desired. For hedging, plant 8 to 10 inches apart. 12 to 15 inch size.

(Each 35c) Add postage and packing 7c.

(10 for \$3.15) (25 for \$6.95). Add postage and packing per 10, 12c; per 25, 18c.



PRIVET HEDGE

CLIMBING VINES

ALL VINES ON THIS PAGE ARE POSTPAID

Vines are used for many purposes, to hide unsightly fences, as shade, some are used to help prevent erosion on banks, and of course for decorative purposes. In our list you will find a suitable vine for almost any kind of planting. All plants two-year-old Number 1.

CLEMATIS

Clematis today are the most showy and effective of all the hardy climbing vines known, so far as richness of color and elegance of form of flower is concerned. Their exceedingly rapid growth makes them very valuable for pillars and trellises, pegged down for rockwork, old trees and stumps.

LARGE FLOWERING VARIETIES. Blooms single, 4 to 5 inches diameter, petals deeply furrowed.

Jackmani. Velvety, violet-purple.

Mad. Ed. Andre. Crimson-red.

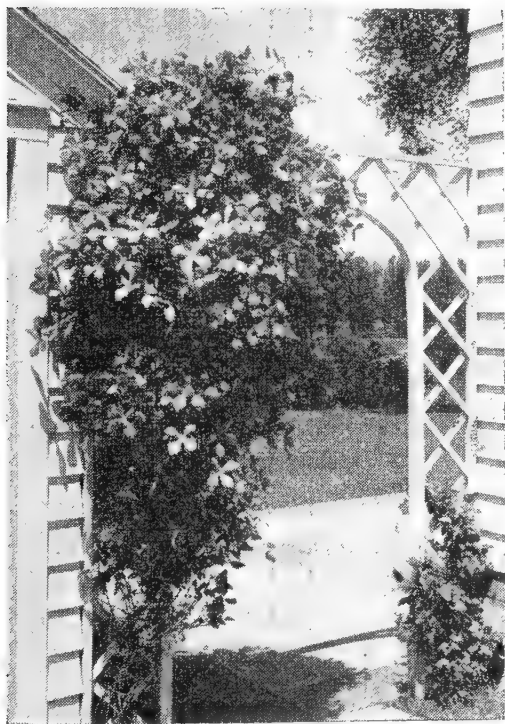
Henryi. Creamy white.

Ramona. Deep sky blue.

(Each 95c) (3 for \$2.75).

CLEMATIS (Paniculata). Very hardy, fast growing. Profusion of small white flowers. Makes good coverage. 2 year No. 1 plants.

(Each 75c) (3 for \$2.10).



CLEMATIS, Jackmani

HONEYSUCKLE

HECKROTTI. Summer King. To 15 feet. Large, fragrant, flame red trumpets, lined with gold. Producing immense clusters from early summer to frost. Blooms first year of planting. Dark bluish green foliage, free from pests and disease. Hardy 2-year No. 1.

(Each 89c) (3 for \$2.45).

HALLIANA. Color, an intermingling of white and yellow; extremely fragrant and most satisfactory.

(Each 48c) (3 for \$1.35).

SCARLET TRUMPET HONEYSUCKLE (Lonicera Sem-pervirens). Trumpet shaped flowers from July to September. Slow growing but very showy.

(Each 54c) (3 for \$1.49).

GOLD FLAME. An everblooming honeysuckle, blooming from early summer to frost. The foliage is almost evergreen. Tubular flowers with recurving petals, flame red outside and bright yellow inside. Very fragrant and perfectly hardy.

(Each 89c) (3 for \$2.45).

IVY

BOSTON IVY. This is the variety that clings tightly to all surfaces, whether smooth or rough. Leaves are deep green, smaller than the other ivies. Does best in cool, partly shaded locations. 2-year-old plants.

(Each 69c) (3 for \$1.95).

ENGLISH IVY (Hedera Helix). Semi-hardy evergreen vine needs protection for outdoor growth. Does best in shady location. Can be grown indoors if desired in pots. Plants in 2½ inch pots.

(Each 49c) (3 for \$1.35).

SAINT PAULI. An improved Englemanni Ivy. Rapid grower, beautiful fall coloring with clinging tentacles like the Boston Ivy. 2-year No. 1 plants.

(Each 69c) (3 for \$1.95).

POLYGONUM

POLYGONUM (Reynoutria). A very good vine for ground cover, growing 4 to 12 inches high. At its best in full sunlight. Light green foliage turns brilliant red in Autumn. Buds deep red. Blooms with fragrant pink sprays similar to Silver Lace Vine in the fall. 2 year No. 1 plants.

(Each 89c) (3 for \$2.29).

SILVER LACE VINE (Polygonum Auberti). A rapid climber averaging 20 feet in a season, with fresh green foliage, lightly bronzed at the tips and a profusion of silvery, lacy flowers in erect sprays; most beautiful.

(Each 89c) (3 for \$2.29).

ASSORTED VINES

BITTERSWEET (Celastrus Scandens). A hardy, useful and ornamental vine. Can be planted in partial shade and thrives in common soils. Used as a cover for walls and trellises, and to stop erosion on steep banks. Yellow flowers in June, followed by bright orange and crimson fruits. 2-year-old No. 1 roots.

(Each 69c) (3 for \$1.89).

DUTCHMAN'S PIPE (Aristo Sipho). Rapid growing vine to 30 feet. Leaves, large round, dark green. Brownish flowers in May and June shaped like a pipe. 2 year No. 1 plants.

(Each \$1.60) (3 for \$4.50).

MADEIRA VINE. A beautiful, rapid-growing vine with dense foliage, white fragrant flowers. A hardy plant if protected during the winter. Strong tubers.

(Each 15c) (per doz. \$1.49).

TRUMPET VINE (Bignonia radicans). A splendid hardy climbing plant, with large, trumpet-shaped, scarlet flowers in August. Two-year-old.

(Each 59c) (3 for \$1.40).



TALISMAN

HOWARD'S ROSES

The Finest
Roses Grown

ALL ROSES

(Except Patented Varieties)

95c Each

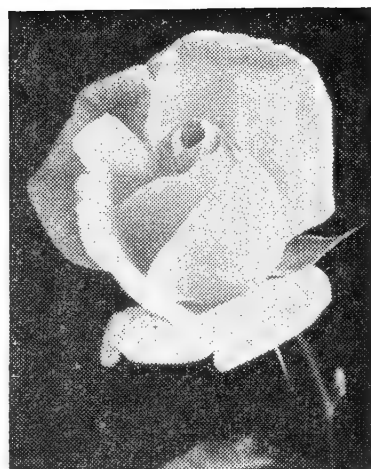
Three for \$2.75

Add postage and packing
charges: (12c each; 3 for 18c)

YOUR CHOICE

Dozen \$9.90

Add postage and packing: 36c



PRESIDENT HOOVER

Here are three pages of No. 1 Roses. When we say **NUMBER ONE**, we mean that the roses have strong unwaxed canes and a mass of vigorous roots containing many small fibrous roots that enable the plant to get the much needed start when first planted. We would also like to call your attention to the fact that early plantings bring early flowers. Hot weather plantings are never as good as when planted during the cooler spring weather.

Howards Desert Grown Are The Finest HYBRID TEA ROSES

YELLOW AND GOLD VARIETIES

HYBRID TEA or H.T. roses are those that bloom intermittently during the summer, sometimes called "everblooming."

Roses are easily grown, but never plant them carelessly. Plant them in a hole that is large enough so as not to cramp the roots. Place the soil about the roots; add plenty of water and pack firmly. A little well-rotted manure, mixed with the soil, is very beneficial. Don't expect roses that are planted in April or May to start growing in a week or ten days; give them at least three weeks to start.

WHITE VARIETIES

CALEDONIA. One of the best whites. Long buds, large double lasting blooms.

KAISERIN AUGUSTA VICTORIA. Ivory white, high centered, double.

PINK VARIETIES

BETTY UPRICHARD. Salmon pink, tinted coppery-red. Well shaped, double flowers. Good grower. Sweet scented.

DAME EDITH HELEN. Pure glowing pink, very double, tall grower. Delicately scented.

EDITOR McFARLAND. Shapely buds, double brilliant pink blooms. Profuse bloomer.

LOS ANGELES. Long pointed buds, double blooms. Flame pink toned coral, golden base.

MISS ROWENA THOM. Enormous buds and blooms of fiery rose and mauve, shaded with old gold at the center, borne on long, strong stems.

PICTURE. Velvety clear rose pink with undertone of salmon-rose.

PINK RADIANCE. Same habits of growth as the Red Radiance only pink in color.

THE DOCTOR. Large beautiful buds opening to enormous semi-double cupped flowers of satiny pink. Hardy, vigorous and bushy plants.

GOLDEN DAWN. Bud rich sunflower yellow, flushed old rose. Double.

JOANNA HILL. Good stems for cutting, long lasting buds. Double creamy yellow shaded bronzy pink in the center.

LADY MARGARET STEWART. Long pointed buds. Flowers large, double and fragrant. Deep yellow with flushes of orange and red.

MME. JOSEPH PERRAUD. High centered perfectly formed buds and double blooms shading from shell pink at the edges to buff and orange in center.

McGREDY'S YELLOW. A good hardy yellow. Double flowers of good size.



PINK RADIANCE

MORE HOWARD ROSES

VARIEGATED VARIETIES

AUTUMN. Vigorous grower with long, strong stems. Blooms of rich burnt orange, yellow and red.

CONDESA DE SASTAGO. Golden yellow buds. Yellow and copper-scarlet blooms. When the flower is open the inside of the petal is a fiery red, and the outside a rich gold. Disease resistant. A fine spicy scented rose.

DUESA DE PENARANDA. A popular variety, large pointed buds of copper-apricot with glossy foliage. Grows tall and well shaped.

PRESIDENT HOOVER. Large double blooms of creamy yellow tinted with flame pink. Long stems.

TALISMAN. A favorite of rich yellow and rose red. Good stems for cutting.

RED VARIETIES

AMERICAN BEAUTY. Deep pink to soft carmine.

Delicate veining of dark red on petals. Fragrant.

CHRISTOPHER STONE. Vivid scarlet roses of a velvety texture. Free blooming, fragrant, hardy.

E. G. HILL. Large, extremely double, lasting deep scarlet, vigorous grower and a profuse bloomer.

ETOILE DE HOLLAND. Large dark velvety red. Very fragrant and a heavy bloomer.

GRENOBLE. Crimson buds on long stems opening into large brilliant red flowers. Vigorous, hardy.

POINSETTIA. Long pointed buds. Large double flowers of bright scarlet. Prolific bloomer.

RED RADIANCE. Always in bloom with large round blossoms of deep rose red. Strong canes bearing until frost.

CLIMBING ROSES

RED VARIETIES

AMERICAN BEAUTY. Rich red fading to crimson. Strong grower.

center. Hardy vigorous grower.

CRIMSON RAMBLER. A very hardy climber, bearing clusters of crimson red flowers.

ETOILE DE HOLLANDE (Climber). Same as bush rose, only a climber.

PAUL'S SCARLET. A profuse spring bloomer of vivid scarlet. Hardy. One of the best.

MISCELLANEOUS VARIETIES

MME. GREGOIRE STAECHLIN. Double pink blooms with slightly curved petals. Long stems.

Cl. PINK RADIANCE. Large rose pink and a strong grower.

SEVEN SISTERS. Large clusters of deep pink double blooms.

Cl. TALISMAN. Yellow stained coppery red.

PATENTED ROSES

HYBRID TEA

APPLAUSE. (Pat. No. 829.) Large, sparkling, light red buds. Open slowly to well shaped fifty petal blooms, very fragrant and heavy bloomer.

(Each \$1.75) postage and packing 12c.

CAPISTRANO. (Pat. No. 992.) Rich shade of deep pink in buds as well as flowers. Does not fade. Buds are large. Blooms on strong stems with a rich lasting fragrance.

(Each \$2.00) postage and packing 12c.

CHARLOTTE ARMSTRONG. (Pat. No. 455.) Long slender blood-red buds opening to brilliantly



CONDESA DE SASTAGO

hued flowers, spectrum red in cool weather and cerise in hot weather.

(Each \$1.50) postage and packing 12c.

CRIMSON GLORY. (Pat. No. 105.) Perfectly formed blooms, intense vivid crimson, soft velvety sheen. Fragrant.

(Each \$1.35) postage and packing each 12c.

DIAMOND JUBILEE. (Pat. No. 824.) Honeycomb yellow or buff-orange with a touch of orange-yellow at base of petals. Large, beautiful, high-centered, and long lasting blossoms. Free bloomer, hardy.

(Each \$2.00) postage and packing each 12c.

FORTY-NINER. (Pat. No. 792.) A rose of contrasting colors that secured an A. A. R. S. award for 1949. Long buds opening to a well shaped bloom that has a beautiful blend of colors. Petals vivid red inside, chrome yellow outside, changing to a straw color. Lasting bright shades and mildly fragrant.

(Each \$1.75) postage and packing 12c.

HEART'S DESIRE. (Pat. No. 501.) Well formed buds that open to large blooms of pure luminous red. They hold their shape and color until the last petal falls. Does not burn in hottest weather. Vigorous grower and prolific bloomer. Very fragrant.

(Each \$1.50) postage and packing 12c.

KATHERINE T. MARSHALL. (Pat. No. 607.) A vigorous grower with large, open, upright blooms of glowing pink. Fragrant, perfect form and long stems.

(Each \$1.35) postage and packing 12c.

LOWELL THOMAS. (Pat. No. 595.) Large, long pointed buds. Flowers large and very double. Lasting canary yellow. Strong stems. Vigorous, bushy plants. Intermittent bloomer.

(Each \$1.50) postage and packing 12c.

MCGREDY'S SUNSET. (Pat. No. 317.) The outside of petals is a clear buttercup yellow tipped orange, while the inside is a chrome yellow flushed scarlet as it opens. Medium sized flowers are full with pleasing fragrance. Borne on strong upright stems. Sun resistant.

(Each \$1.35) postage and packing 12c.

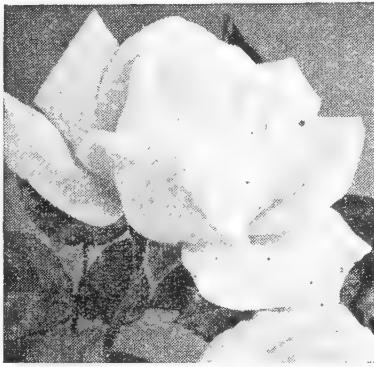
MIRANDY. (Pat. No. 632.) Long ovoid buds opening to very double blooms of maroon red. Long lasting and of penetrating fragrance.

(Each \$1.50) postage and packing each 12c.

WHEN ROSES ARE MAILED ADD 12c EACH FOR PACKING AND POSTAGE

Patented Roses

Hybrid Tea



PEACE

MISSION BELLS. (Pat. No. 928.) Deep glowing salmon, which opens to a clear shrimp pink color. Vigorous heavily branched plants with disease resistant coppery green foliage. Pointed buds and high centered flowers, to 5½ inches across A.A.R.S. award for 1950. (Each \$2.00).

MME. CHIANG KAI-SHEK. (Pat. No. 664.) Long, large pointed buds, opening to Empire to lemon yellow blooms on long stems. Vigorous and abundant bloomer. (Each \$1.50).

NOCTURNE. (Pat. No. 713.) Bright cardinal red with dark shadings of crimson. Large petals, long lasting fragrant flowers. A.A.R.S. award for 1948. (Each \$1.50).

PEACE. (Pat. No. 591.) Ovoid buds and golden yellow etched with pink as they open. Color changes from canary yellow to pale golden, to cream. Petals are edged with apple blossom pink that deepens as the flowers open to about 5 inches. (Each \$2.00).

REX ANDERSON. (Pat. No. 335.) An outstanding exhibition rose of delicate ivory white. Perfect form, slow opening, one of the few successful whites. Large full double flowers. (Each \$1.50).

ROSE OF FREEDOM (Pat. No. 791.) Heavily petaled. Currant red roses on long stems. True rose fragrance. New wood, almost thornless. Blooms freely on vigorous bush, heavily foliaged. (Each \$1.50).

SUTTERS GOLD. (Pat. No. 885.) Beautiful, long pointed, yellow bud, richly shaded with orange and red. Rich tea fragrance. High centered richly colored blooms. A.A.R.S. award for 1950. (Each \$2.00).

TALLYHO. (Pat. No. 828.) A bi-color but the contrast is not great. Inside of petals is a unique shade of pink, outside a rich crimson. Deep cardinal-red buds producing large blooms on long stems. Perfectly formed and a spicy fragrance. (Each \$1.75).

TEXAS CENTENNIAL. (Pat. No. 162.) Bright vermilion red with light tone of gold at base. Petals lighter red at center gradually toning to deep rich pink as the bloom ages. (Each \$1.25).

WILL ROGERS. (Pat. No. 256.) Dark velvety maroon, very fragrant, double. Strong, vigorous plants with dark green foliage. Good cut flowers. (Each \$1.25).

PATENTED CLIMBING ROSES

BLAZE. (H.T.) (Pat. No. 10.) Hardy recurrent blooming climber, with the beautiful scarlet shades of Paul's Scarlet climber, but a much heavier bloomer. (Each \$1.50).

CL. CRIMSON GLORY. (Pat. No. 736.) Climbing form of the hybrid tea. Produces an abundance of perfectly formed crimson colored blossoms. (Each \$1.50).

DR. J. H. NICOLAS. (Pat. No. 457.) Vigorous plant with dark green foliage. Flowers fully double, rose pink, 5 to 6 inches across and with about 50 petals. Will grow about 8 to 10 feet tall and is everblooming. (Each \$1.50).

CL. PEACE. (Pat. No. 932.) Climbing form of Pat. No. 591. (Each \$2.00).

PATENTED FLORIBUNDA ROSES

BETTY PRIOR. (Pat. No. 340.) Produces large fragrant clusters continuously throughout the season. Opens a bright red turning to shell pink. (Each \$1.25).

CHATTER. (Pat. No. 739.) Unusually bright crimson, generous flower clusters, continuously in bloom. Velvety firm petals. (Each \$1.25).

DONALD PRIOR. (Pat. No. 377.) Large, semi-double, bright scarlet flowers, flushed crimson. Fragrant. Free flowering. One of the best. (Each \$1.25).

FASHION. (Pat. No. 789.) Brilliant, luminous, coral flowers overlaid with gold; opening with wavy, graceful petals. All season blooms in large clusters. (Each \$2.00).

GOLDILOCKS. (Pat. No. 672.) Rich golden yellow, buds ovoid in shape, long lasting, hardy and vigorous. (Each \$1.50).

HOLIDAY. (Pat. No. 915.) Clusters of large sized buds. Orange yellow brushed pink on outside gradually giving way to softer tones when open. (Each \$1.50).

PERMANENT WAVE. (Pat. No. 107.) Large semi-double flowers of rosy-pink with cerise edges. Petals are waved permanently from buds to finish. Hardy grower and bushy. (Each \$1.25).

PINKIE. (Pat. No. 712.) Long, slender but perfect little pink buds opening to flowers about two inches across. Almost a continuous bloomer. Plants about two feet tall. Fragrant. (Each \$1.50).

PINOCCHIO. (Pat. No. 484.) A hardy plant producing many pointed buds of salmon-flushed gold, opening to a mass of miniature hybrid tea like roses of soft, clear pink and in large clusters. (Each \$1.25).

RED PINOCCHIO. (Pat. No. 812.) Masses of 3½ inch flowers in clusters. Rich carmine, gradually deepens as blooms open. Does not fade. Wild rose fragrance. Vigorous, prolific bloomer. (Each \$1.50).

SNOWBANK. (Pl. Pat. No. 279.) A floribunda with white flowers on heavily branched plants. Heavy bloomer. (Each \$1.25).

WORLD'S FAIR. (Pat. No. 362.) Produces large clusters of velvety blooms of fragrant blackish-scarlet with glowing mass of golden stamens. (Each \$1.25).

WHEN ROSES ARE MAILED ADD 12c EACH FOR PACKING AND POSTAGE

ORNAMENTAL SHRUBS

Ornamental shrubs look better when planted three or more of a kind grouped together, if the size of the plot will permit. They are suitable for border planting around the walks and lawns and also the low growing varieties for foundation planting around the house and porch. To make it easier to select shrubs for particular purposes, we have adopted letters to denote the average height to which the various shrubs grow at maturity.

"T" denotes shrubs 12 to 15 feet.

"M" denotes shrubs 6 to 8 feet.

"L" denotes shrubs 8 to 12 feet. "D" denotes shrubs 2 to 3 feet. "S" denotes shrubs 3 to 6 feet.

BARBERRY

JAPANESE (*Berberis Thunbergi*) (D). A very popular low hedge plant of great hardiness; flowers followed by bright red berries that remain on plant until February. Foliage small dark green, turning to brilliant colors in fall. Effective for use in edging shrubbery or in masses. Transplants 15 to 18 inches.

(Each 42c) (3 for \$1.15).

Add postage and packing: (Each 10c) (3 for 17c).

NEW RED-LEAVED JAPANESE BARBERRY (D).

Similar in all respects to the green-leaved, but the foliage is of rich, lustrous bronzy red. It should be planted in a sunny exposure to bring out and retain its full red color.

(Transplants 15-18 in. Each 69c) (3 for \$1.90).

(Transplants 2 to 2½ feet Each \$1.10) (3 for \$2.95).

Add postage and packing: (Each 10c) (3 for 17c).

BLUE SPIREA

CARYOPTERIS (*Blue Mist*) (D). A low growing shrub blooming from August to frost, with many clusters of powdery blue, fringed flowers. Silvery green foliage, slightly toothed leaves. Hardy No. 1 plants.

(Each 79c) (3 for \$2.15).

Add postage and packing: (Each 10c) (3 for 17c).

BUTTERFLY BUSH

BUTTERFLY BUSH (*Buddleia*) (S). A very beautiful shrub, with long graceful stems terminating in tapering panicles of rich colored flowers. Although hardy, it will freeze down in Colorado and it is best to cover the roots with leaves or manure to insure a heavier growth the next season. They will bloom from June until frost.

Burgundy. A dark red *Buddleia* with blood red eye shading lighter to edge of petals. Strong spikes.

Dubonnet. New dark wine flowers on large, firm spikes.

Empire Blue. (Pat. No. 557). A beautiful shade of blue, being an Aster-blue with a delicate tone. Almost a Royal Blue.

Fortune (Pat. No. 206). Pure lilac flowers with brilliant orange eye on large round sprays to 2 feet long. Good cut flowers. Deep dark green foliage.

Royal Red (Pat. No. 556). A new variety producing an abundance of round sprays 18 to 24 inches long. Rich dark purple, showing almost red when displayed under artificial light. Grow 4 to 6 feet tall with deep leathery green foliage.

Your choice of above: (Each 75c).

Add postage and packing: (Each 10c).

COTONEASTER

COTONEASTER (*Acutifolia*) (M). Growing from 6 to 8 feet in height, this perfectly hardy shrub makes an ideal foundation or full sun plant. Has graceful arching branches, colorful fall foliage and black berries that hang on well into the winter. 2 to 3 ft. shrubs.

(Each 98c) (3 for \$2.70).

Add postage and packing: (Each 10c) (3 for 17c).

COTONEASTER. Spreading *Cotoneaster*. Of spreading growth. 5 ft. in height. Foliage nearly evergreen. Pink flowers followed by red berries. A good hardy, attractive plant.

2 to 3 ft. shrubs (Each \$1.59) (3 for \$4.40). Add

postage and packing: (Each 10c) (3 for 17c).

BEAUTY BUSH

BEAUTY BUSH (*Kowikwizia Amabilis*) (S). A graceful shrub with arching branches. Pink honeysuckle shaped flowers in May. Very hardy. Bushy plants. 2 to 3 feet.

(Each \$1.15) (3 for \$3.15).

Add postage and packing: (Each 10c) (3 for 17c).

DOGWOOD

CORNUS, Alba Siberica (M). Red stemmed. Clusters of white flowers, succeeded by fall crop of white berries; stem and branches turning to blood-red in winter. 3 to 4 feet.

GOLDENTWIG, Stolonifera Lutea (M). Yellow stemmed. Clusters of white flowers, stems and branches are yellow. 3 to 4 feet.

Either of above dogwood (Each 98c) (3 for \$2.70).

Add postage and packing: (Each 10c) (3 for 17c).



BUDDEIA

TO IMPROVE YOUR LANDSCAPE

ELDER

Although the elders are attractive in flower and fruit, they are chiefly grown for their beautiful leaves, which make admirable fillers among other shrubs. Being rather tall growing and of robust habit, their use should be confined to backgrounds, screens or tall hedges.

GOLDEN ELDER (*S. nigra aurea*) (L). Contrasted with other shrubs, the golden yellow leaves of this European Elder give heightened effects in tone and color. Flowers white in flat-topped cymes. Grows naturally 10 to 15 feet but can be pruned into neat, compact little bush. 3 to 4 feet.

(Each 98c) (3 for \$2.70).

Add postage and packing: (Each 10c) (3 for 17c).

GOLDEN BELL

FORSYTHIA SPECTABILIS (M). This splendid spring flowering shrub is one of the earliest to bloom. The golden yellow flowers burst out close to the yellow stems and are followed by glossy green foliage. Branches slightly drooping. Hardy and easy to grow. 3 to 4 feet.

(Each 98c) (3 for \$2.70).

Add postage and packing: (Each 10c) (3 for 17c).

HONEYSUCKLE

TARTARIAN LONICERA (M). The upright honeysuckle have bright and fragrant flowers, followed by showy berries that last through the early fall. Make very desirable and attractive shrubs. Very hardy. Ultimate height 6 to 8 feet. Separate colors, white, deep rose-pink and red. 3 to 4 feet.

(Each 89c) (3 for \$2.49).

Add postage and packing: (Each 10c) (3 for 17c).

HYDRANGEA

ABORESCENS GRANDIFLORA or HILLS OF SNOW (S). This hardy American shrub grows 4 to 6 feet high and is one of the finest of this class of plants. The blooms are of largest size, or pure snow-white and the foliage is finely finished. Blooms after all the early shrubs from June until August. 2 to 3 feet.

(Each \$1.19) (3 for \$3.29).

Add postage and packing: (Each 10c) (3 for 17c).

PANICULATA GRANDIFLORA (S). A good one to follow Hills of Snow, blooming profusely when other flowers are falling in the fall. Blossoms open white, assuming rose and bronze tints on the sunny side and drooping gracefully of their own weight. 2 to 3 feet.

(Each \$1.19) (3 for \$3.29).

Add postage and packing: (Each 10c) (3 for 17c).



GOLDEN ELDER

LILAC (*Syringa*)

CHINESE (*Rothomagensis*) (M). Has small, slightly pointed leaves, on slender, straight branches. Reddish purple flowers are borne in loose panicles a little later than the common purple variety. Free blooming and very hardy. 2 to 3 feet.

(Each 79c) (3 for \$2.15).

Add postage and packing: (Each 10c) (3 for 17c).

PURPLE (*Syringa Vulgaris*) (M). Lilac flowers which are of a delightful fragrance and borne in magnificent clusters in May. 2 to 3 feet.

•(Each 69c) (3 for \$1.95).

Add postage and packing: (Each 10c) (3 for 17c).

VILLOSA (M). Large panicles of violet flowers shaded a pronounced pink. Blooms in June. Very bushy. 2 to 3 feet.

(Each 98c) (3 for \$2.75).

Add postage and packing: (Each 10c) (3 for 17c).

FRENCH LILACS. Named varieties. Hardy hybrids. Chosen for their attractive flowers of different colors and foliage. The letter (D) denotes double and the letter (S) single types of blossoms.

Charles Joly (D). Rich red.

Ludwig Spaeth (S). Dark purple.

Pres. Carnot (D). Orchid pink.

Pres. Lincoln (D). Bluish lilac.

Mme. Lemoine (D). White.

Choice of above: 2 to 3 ft. size (Each \$1.49)
(3 for \$4.20).

Add postage and packing: (Each 10c) (3 for 17c).

Select and Plant SHRUBS



ROSE OF SHARON

MOCK ORANGE (Philadelphus)

BOUQUET BLANC (S). A fine variety for borders or foreground, also used as a hedge. Very fragrant, double flowers three-quarters to one inch across, all along the stem. White blossoms during June in the western states. 4 to 5 feet at maturity. 18 to 24 inches.

(Each 79c) (3 for \$2.10).

Add postage and packing: (Each 10c) (3 for 17c).

CORONARIUS (L). Blooms in May, in very graceful sprays, slightly scented. Good for tall screens. Milk white flowers, in most cases, and beautiful for cutting. 3 to 4 feet.

(Each 89c) (3 for \$2.45).

Add postage and packing: (Each 10c) (3 for 17c).

VIRGINAL (M). This variety of Mock Orange is very popular. The bush does grow moderately tall, the flowers are large, semi-double, sweetly scented. 3 to 4 feet.

(Each \$1.39) (3 for \$3.90).

Add postage and packing: (Each 10c) (3 for 17c).

PHYSOCARPUS

NINEBARK

OPULIFOLIUS NANA (Dwarf Ninebark). Dwarf, dense growth, beautiful foliage, white flowers in May and June followed by many small red pods. Very hardy, growing 4 to 5 feet.

OPULIFOLIUS AUREA. 8 to 10 ft. Hardy golden leaf variety. Single white flowers in June.

Either of above: 2 to 3 ft. size (Each 89c) (3 for \$2.40).

Add postage and packing: (Each 10c) (3 for 17c).

ROSE OF SHARON

ALTHEA (*Hibiscus Syriacus*) (S). One of the best known shrubs with handsome, plain and variegated foliage. Used for screens, group and specimen planting. Large, double, rose-like flowers in bloom from August until frost. Colors red, pink, purple, blue and white. 3 to 4 feet.

(Each 79c) (3 for \$2.10).

Add postage and packing: (Each 10c) (3 for 17c).

SPIREA

All of the Spireas bloom with a riotous extravagance which makes them quite striking. Their individual style, color and habits of growth differ so markedly that a collection of varieties will insure bloom the entire season and still avoid the monotony of repetition.

ANTHONY WATERER (D). Beautiful dark, small foliage; dense rounded growth; and large, brilliant, rosy crimson corycombs; of long blooming season. At its best in midsummer. Much used for foundation plantings and low borders. 18 to 24 inches.

(Each 69c) (3 for \$1.95).

Add postage and packing: (Each 10c) (3 for 17c).

ARGUTA (Snowgarland) (S). A hardy spirea blooming a week to ten days earlier than the Van Houttei variety. When in bloom it is covered with pure white flowers; foliage fine and feathery. Grows 4 to 5 feet tall. 2 to 3 feet.

(Each 89c) (3 for \$2.49).

Add postage and packing: (Each 10c) (3 for 17c).

BILLIARDI (S). A strong grower; dull green foliage, dense panicles of bright pink flowers. Bloom during July and August and occasionally during the fall. 3 to 4 feet.

(Each 89c) (3 for \$2.49).

Add postage and packing: (Each 10c) (3 for 17c).

FROEBELI (D). Similar to Anthony Waterer; grows a little taller; the flowers are more of a rose-pink and bloom from June until fall. On account of its purplish bronze foliage, it is extensively planted for color effect. 2 to 2½ feet.

(Each 69c) (3 for \$1.95).

Add postage and packing: (Each 10c) (3 for 17c).

PRUNIFOLIA (True Bridal Wreath). A dainty shrub but hardy. Perfectly formed double white flowers along the stems. A profuse and graceful bloomer a little later than Van Houttei. 2 to 3 feet.

(Each 98c) (3 for \$2.70).

Add postage and packing: (Each 10c) (3 for 17c).

THUNBERGI. A hardy medium height shrub, growing to 4 feet. Feathery bright green foliage on slender spreading branches. Pure white flowers about first of May. 2 to 2½ feet.

(Each 69c) (3 for \$1.95).

Add postage and packing: (Each 10c) (3 for 17c).

For Continuous Summer Bloom

VAN HOUTTEI (S). This is one of the finest ornamental shrubs in our whole collection, and much used in all good landscape work. Its branches droop with singular grace under their white burden of flowers in late spring. 3 to 4 feet.

(Each 69c) (3 for \$1.95).

Add postage and packing: (Each 10c) (3 for 17c).
Hedging size, 18 to 24 inches.

(10 for \$3.29). (Add postage and packing: 17c).

SUMAC (Rhus)

STAGHORN SUMAC (Typhina) (L). A large shrub or tree. Furry branches, greenish flowers in June and July. Foliage turns crimson and purple in the fall. Followed by crimson berries. 3 to 4 feet.

(Each 89c) (3 for \$2.49).

Add postage and packing: (Each 10c) (3 for 17c).

SYMPHORICARPOS

Snowberry

RACEMOSUS (Common Snowberry) A very hardy plant that succeeds in most locations. Not particular as to soil. Attractive green leaves, not too large but heavy enough to make good screens for coverage. Pink flowers in June and July followed by pure white berries that hang on well into the winter.

CHENAULTI (Improved Coralberry) Grows about the same height as Racemosus, but leaves are smaller and berries are a coral red. Hardy. Either of above, 2 to 3 ft. size.

Your choice of above.

(Each 79c) (3 for \$2.15).

Add postage and packing: (Each 10c) (3 for 17c).

TAMARIX

HISPIDA (Kashgar Tamarix) (L). Feathery, silvery foliage. Bright coral pink blooms during July. This variety remains in bloom longer than others and is very hardy. 3 to 4 feet.

(Each 89c) (3 for \$2.55).

Add postage and packing: (Each 10c) (3 for 17c)

VIBURNUM

VIBURNUM AMERICANA. American Cranberry Bush. Grows 8 to 12 ft. Well shaped shrub with single white flowers in May. Edible, bright scarlet berries, hanging through the winter.

2/3 ft. (Each 89c) (3 for \$2.55).

Add postage and packing: (Each 10c) (3 for 17c).

DENTATUM (Arrowwood) (L). Large bushy shrub. Heart shaped leaves, bright green in summer, changing later to rich purple and red. The handsome creamy white flowers are followed by blue-black berries. 2 to 3 feet.

(Each 79c) (3 for \$2.25).

Add postage and packing: (Each 10c) (3 for 17c).

Special Offer

On Spirea listed, pages 69-70, 5 Spirea, no two alike, your choice, \$3.75 postpaid.

VIBURNUM LENTAGO. Nannyberry. Grows 18 to 20 ft. Upright growing shrub or small tree. Blooms with single white flowers in May. Shining green leaves and large blue black berries.

2/3 ft. (Each 89c) (3 for \$2.55).

Add postage and packing: (Each 10c) (3 for 17c).

OPULUS STERILIS (Snowball) (L). The old-fashioned snowball. Large, double, pure white flowers in May. A heavy bloomer. 2 to 3 feet.

(Each \$1.19) (3 for \$3.25).

Add postage and packing: (Each 10c) (3 for 17c).

WEIGELA

BRISTOL RUBY. Plant Pat. No. 492. (S). Improved Weigela Eva Rathke. Hardier and better grower. Large soft ruby eyed flowers, shading to garnet crimson. 2 to 3 feet.

(Each \$1.39). Add postage and packing: (Each 10c).

ROSEA (Pink Weigela) (S). An exceedingly pretty variety with pink flowers in May and June. 2 to 3 feet.

(Each 79c) (3 for \$2.20).

Add postage and packing: (Each 10c) (3 for 17c).



WEIGELIA

ORNAMENTAL TREES

NOTE: We divide ornamental trees into two classes—those suitable for street planting, Class "A"; those suitable for lawns, Class "B". Those that can be used for either are marked "AB". For large lawns many of the "A" class are desirable; note the letter after each variety.

Many people are realizing nowadays that by expending a little time and study they can have well-kept and attractive looking grounds, adding to the beauty and comfort of the home and increasing the value of the property. There is an ornamental deciduous tree for almost every purpose, whether for shade, for hiding objectionable sights, or for beauty, or utility. Our list comprises all those varieties which are well adapted to our western climate. You will find many interesting trees suitable for your individual tastes.

The ornamental trees **cannot be sent by parcel post** as they are too large. Consequently we are quoting them net prices and they will be sent to you express or freight charges collect.

ASH

EUROPEAN MOUNTAIN (B). Hardy tree; head dense and regular, beautiful fernlike green foliage; covered with clusters of bright red berries from August till winter. Needs fall watering. 5 to 6 feet.

(Each \$2.89).

BIRCH

EUROPEAN WHITE. A hardy tree with smooth white bark and handsome foliage. Thrives well in most any soil. Very attractive and ornamental. To further insure their growing we handle birch trees balled and burlapped in moss. 6 to 8 foot trees.

(Each \$2.49).

CATALPA

BUNGEI (Umbrella Catalpa). The round heads of large, dark green leaves make a very desirable tree for formal plantings. 4 to 5 feet. 2-year-old trees.

(Each \$2.75).

COTTONWOOD

COTTONWOOD (Cottonless). A fast growing tree similar to the old-fashioned western type of cottonwood but does not develop seed or cotton. Easily grown. 6 to 8 feet in height.

(Each \$1.60) (10 for \$14.40).

ELM

AMERICAN (Ulmus Americana). Easily distinguished by its wide arching top, vase-like form and pendulous branchlets. Next to the oak this is the grandest and most picturesque of American trees. Yellow or brown in the fall. 6 to 8 feet.

(Each \$1.45) (3 for \$3.90).

CHINESE (Pumila). The Chinese Elm has gained in favor more rapidly than any other shade tree, due to its extreme hardiness, rapid growth and ability to withstand severe drought conditions. Brought from northern China, it is well adapted to our western climate. 6 to 8 feet.

(Each \$1.45) (3 for \$3.90).

Chinese Elm Seedlings. Good, sturdy stock, 18 to 24 inches.

(Per 100, \$3.90). Add postage and packing: (45c).

(Per 1000, express or freight \$31.00).

MOLINE ELM. A tall growing tree that is very fine for street and drive planting. Large leaves of a beautiful green shade. 6 to 8 feet.

(Each \$1.90) (3 for \$5.50).

HACKBERRY

HACKBERRY (Celtis Occidentalis). A rapid growing and desirable shade tree of spreading growth. Leaves to 5 inches long, toothed, bright green. Orange red or dark red fruit. Very sturdy, limbs seldom broken by wind or heavy snows. 6 to 8 feet.

(Each \$2.19).

HONEY LOCUST

HONEY LOCUST (Gleditsia Triacanthos, Inermis).

A thornless Honey Locust that is very hardy and will do in most any kind of soil. Not affected by borers or drought. Fragrant yellow flowers the latter part of May, followed by long twisted seed pods to 1½ feet long. 5 to 6 feet.

(Each \$1.95).

LINDEN

AMERICAN, Tilia Americana. This tall, stately tree with its large shining leaves makes an ideal street tree. Sweetly scented yellowish-green flowers in July. 6 to 8 feet.

(Each \$2.79).

MAPLE

NORWAY (Platanoides) (A). A hardy tree, of symmetrical but spreading growth, often 40 feet in height. Roots deeply, allowing grass to grow close to the trunk. Fine for park or street planting. 6 to 8 feet.

(Each \$2.89).

SCHWEDLER'S MAPLE (AB). The beautiful leaves attract attention at all seasons but are especially fine in spring when their gleaming red and purple contrast brightly with the delicate green of other trees. In midsummer they are purplish green, in autumn golden yellow. 6 to 8 feet, branched.

(Each \$3.95).

SOFT OR SILVER MAPLE (A). A hardy, rapid growing native tree of large size. Valuable for producing a quick shade. Excellent for street planting. 6 to 8 feet.

(Each \$1.90) (3 for \$4.90).

SUGAR OR HARD MAPLE. Splendid ornamental tree, very hardy, not particular as to soil. Spreading habit of growth and fairly rapid grower. Cut leaves, silvery white underneath. Foliage turns bright orange or scarlet in autumn. 6 to 8 feet branched.

(Each \$3.25).

WEIR'S CUT-LEAVED MAPLE (AB). One of the best cut or dissected leaved trees. Hardy and grows rapidly. 5 to 6 foot trees.

(Each \$2.79).

FOR SHADE AND BEAUTY

POPLAR

BOLLEANA. Fast growing, height to 40 feet. Of compact and slender growth. Suitable for backgrounds or specimen planting. Leaves and bark light green color. Leaves lighter underneath. (4 to 5 ft. size, 85c each).

(6 to 8 ft. size, \$1.85 each).

CAROLINA (Norway Variety). Slightly erect habit of growth but makes good shade tree. Hardy, fast grower. 6 to 8 feet. (Each \$1.25) (3 for \$3.35).

OAK

RED (Quercus Rubra). A hardy oak with beautiful foliage which turns to red in autumn. Unsurpassed for park or street planting. Best to water well in fall. 6 to 8 feet. Branched. (Each \$3.90).

RED BUD

CERCIS CANADENSIS. Grows 20 to 30 feet. Produces a wealth of reddish-pink flowers in early spring. Forms a broad head of glossy, heart-shaped leaves that turn pale yellow in the fall. 3 to 4 foot size. (Each \$1.89) (3 for \$4.95).

Add postage and packing, each 9c; 3 for 19c.

RUSSIAN OLIVE

ELAEAGNUS AUGUSTIFOLIA (AB). A very hardy and handsome tree, growing 8 to 12 feet high. The leaves are particularly handsome, willow-like and a rich silvery white. The flowers are small, golden yellow and very fragrant, followed by silvery fruits. Also used as shrub.

18 to 24 inches, hedging size: (\$7.95 per 100) (50 at 100 rate) (10 for 90c). Add postage and packing, per 10, 10c; per 100, 30c.

4 to 5 ft. size. (Each \$1.55) (3 for \$4.35).

WILLOWS

PUSSY WILLOW. A small tree with upright branches. Catkins very numerous, handsome in flower; greatly esteemed by reason of extreme earliness. 4 to 5 feet.

(Each \$1.29) (3 for \$3.49).

Add postage and packing: (Each 12c) (3 for 22c).

WEeping DECIDUOUS TREES

CUT-LEAVED WEEPING BIRCH (B). One of the most elegant of all weeping trees. Its tall, slender, yet vigorous growth, with graceful drooping habit, silvery white bark and delicate cut-leaved foliage make it one of the most attractive trees. It is especially ornamental. 6 to 8 feet.

4 to 5 feet (Each \$2.40).

WEEPING WILLOW (Niobe) (B). A handsome tree, slender leaves, green above, silver beneath. The twigs and bark tinged dark red. 6 to 8 feet.

(Each \$2.19) (3 for \$5.95).

FLOWERING TREES

CRAB (Flowering Malus)

BECHTEL'S (Double) (T). Makes a well formed medium sized tree, perfectly hardy. Beautiful double, delicate pink blooms. Fragrant. 4 to 5 feet. (Each \$2.49). Add postage and packing, each 18c.

FLORIBUNDA (Japanese Flowering). Foliage, green with lacy effect. Branches grow with horizontal

habit and bushy. Buds pink. Early flowers of rosy white followed by small yellow fruit. Ultimate height 25 feet.

4 to 5 feet size: (Each \$1.90) (3 for \$5.50). Add postage and packing, each 18c.

HOPA. (Red Flowering Crab) (T). Of upright growth and very attractive foliage. It grows a little taller than the Bechtel's. Covered with cerise red colored flowers during April. Edible fruit, red inside and out and very good for making jellies. If not picked fruit will hang on until late autumn. Very hardy and free from disease.

5 to 6 feet size: (Each \$1.95) (3 for \$5.70).

HAWTHORN

PAUL'S SCARLET THORN. (Oxyacantha Pauli) A variety of English Hawthorn that is hardy for our western climate. Grows 12 to 15 feet tall, erect and well foliated. When established will produce a mass of beautiful, round, bright scarlet double flowers in June, followed by small seed pods.

4 to 5 feet size. (Each \$2.35).

Add postage and packing: (Each 15c).

FLOWERING SHRUBS

ALMOND FLOWERING (M). A small spring flowering tree or shrub; blooming very gaily before the leaves appear. Their growth is dwarf, bushy and compact. Slender branches completely hidden by beautiful double flowers when in bloom. Pink only. 3 to 4 feet.

(Each \$1.29) (3 for \$3.60).

Add postage and packing: (Each 12c) (3 for 25c).

FLOWERING QUINCE (Cydonia Japonica). Very ornamental in early spring, as its bright scarlet flowers completely cover the branches before the leaves are formed. Sometimes used for hedging. 2 to 3 feet. (Each 98c) (3 for \$2.79).

Add postage and packing: (Each 12c) (3 for 25c).

MAGNOLIA (Soulangeana Nigra). Purple lily Magnolia. Dark buds opening to deep purplish-red flowers. Blooms late. Makes compact shrub to 12 feet. Roots balled in moss. 2 to 3 feet size.

(Each \$4.45). Add postage and packing, 15c.

PRUNUS (Ornamental Plums)

CISTENA (M). A small treelike shrub. The young branches are a dark purple and the leaves a lustrous crimson changing to a dark purple. Dwarf habit of growth. 2 to 3 feet.

PRUNUS NEWPORT. A large shrub, habits of growth like the Cistena, but growing larger. Bronze or reddish tipped leaves, well foliated. Does very well in most locations and very hardy. Fine specimen shrub or as a hedge. 3 to 4 feet size.

PERSICA (Camelliaflora). Red flowers to 2 inches across in advance of foliage. Late blooming. 4 to 5 feet.

PRUNUS TOMENTOSA—Nanking Cherry. Grows 10 to 12 ft. Showy flowers and fruit of good flavor. Used for jams and jellies. Hardy. 3 to 4 feet.

TRILOBIA. A hardy shrub or small tree growing 8 to 10 feet, that will do well in most any territory. Double pink flowers in May before leaves appear. Attractive green foliage, turning red in fall. 3 to 4 feet.

Any of above Prunus, your choice: (Each \$1.59) (3 for \$4.45). Add postage and packing: (Each 14c) (3 for 25c).

TREE FRUITS



SUMMER APPLES

EARLY HARVEST. Medium to large; pale yellow, white fleshed, tender and sub-acid; ripens early during the summer. Very productive.

RED JUNE. Mid-season bearer. Hardy, good cooking apple. Red, white flesh, juicy, subacid.

YELLOW TRANSPARENT. Early to ripen; pale yellow when fully ripe, of medium size, tender and good; free-growing and fruitful. Its early fruit in July is always welcomed.

QUINTUPLET APPLE TREES

Quintuplet trees, as the name implies, are apple stocks that have been grafted with 5 or more varieties of apples on the same tree. They are satisfactory for the people having a limited space for trees and wanting more than one kind of apple. You will find them as hardy as the types with a single graft of the same name. They are grafted on Whitney Crabapple stock with grafts of Yellow Transparent, Red Delicious, Red Jonathan, Wealthy, Crimson Winesap and Yellow Delicious. We are unable to tell which of the types will be on each tree, but each tree will have 5 varieties from the above list.

4 to 4½ foot size: (Each \$2.45).

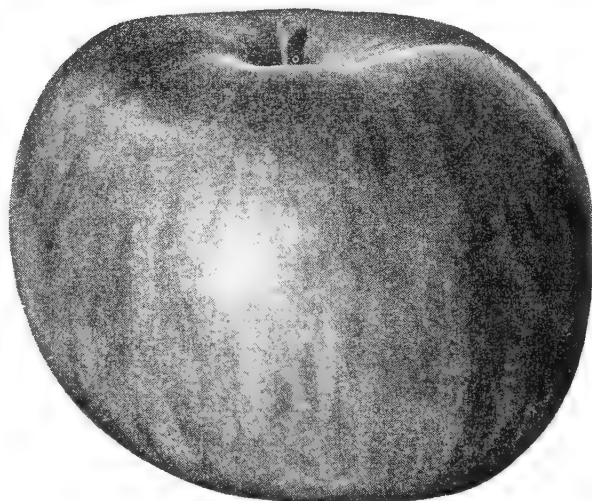
Add postage and packing: (Each 15c).

We are listing only the varieties that have proven a success in the West, and we know that with the proper care and attention that is due to any tree, a crop of fruit will result from any one of the many we have listed.

As soon as you receive your shipment remove the packing, sprinkle the roots and heel the bundle in moist ground. In planting, take out only a few trees or shrubs at a time and never allow them to lie exposed to the air and sun at any time. Dig the hole large enough to admit all the roots in the natural position, keeping the surface and the sub-soil separate. In filling in, sift the best soil in around the roots. When most of the soil is filled in, pour in the water to wash the soil around the roots, then pile up the remainder and tread down gently with the foot. After this the tree or shrubs should only be watered when the soil gets dry about 2 or three inches below the surface. A mulch around the base of the tree, 2 or 3 inches thick, is very beneficial.

PRICES

Prices do not include prepayment or postage except where noted. For your convenience we have shown the amount of postage to allow. If it takes more than the amount stated, we pay the difference. If it takes less than the amount stated, we return the balance.



WEALTHY

APPLES AND PLUMS

AUTUMN APPLES

MAIDEN BLUSH. Medium size, round, flushed with red or creamy yellow. Very handsome. Tender flesh.

WEALTHY. The most popular early variety known; heavy producer of medium size red apples. One of the finest early eating or cooking varieties; everyone should plant Wealthy apples.

WINTER APPLES

DELICIOUS, RED. A most wonderful apple of unusually fine flavor; originated in our western country. The fruit is large, of a brilliant dark red color; juicy, crisp and melting. Heavy cropper.

JONATHAN. The old standby—heavy producer, brilliant red, sweet and juicy; excellent keeper.

McINTOSH BLACK MICKY. An old reliable that does well in our western climate. Good keeper, large and hardy.

NORTHERN SPY, RED. A large, hardy variety and a good keeper. Also a good commercial apple as well as for home use. Makes good shade tree.

ROME BEAUTY. Extra large; yellow with crimson cheek; juicy, bears heavily.

STAYMAN WINESAP. Larger and more prolific than the old Winesap. Rich, dark red; fine grained and juicy. Well adapted to our western soils and climate.

CRAB APPLES

DOLGO. A very hardy and desirable crab. The fruit is a fiery red and very good for making jellies. It bears an abundance of fruit at an early age. Also can be used as an ornamental tree.

FLORENCE. Very good medium size crab originating in Minnesota. Fruit acid, carmine color, flesh yellowish and firm. Excellent for cooking and making jellies. Early bearer.

WHITNEY. An old favorite. Larger than most crab-apples. Not as tart as desired by some, but a good all purpose fruit. Some users like it as an eating apple.



WANETA

PLUMS

The plum may not be so important as some other fruits, but it is gaining in popularity every year and has been planted extensively the past few years. As it is a native fruit it grows easily and is a great bearer and should have a place in every orchard.

BLUE DAMSON. An old favorite and well known. Fine for preserves. Hardy, heavy bearer. Free stone.

ITALIAN PRUNE. Very well known and widely planted. Oblong shape, almost black skin and yellowish-green flesh. Freestone.

OPATA. A hardy Hansen hybrid, on native root. Purplish-red fruit and bears early.

STANLEY PRUNE. A dark blue-skin, green fleshed prune. Sweet and delightful flavor. Flesh turns to reddish tint when ripe. Good canner.

SUPERIOR. Large, red fruit and very hardy. Has been tried and proven very successful in Colorado. A good plum for both canning and eating fresh.

UNDERWOOD. Large red fruit, very small pit, hardy and fine flavor. Ripening latter part of July. Freestone.

WANETA. This wonderful large plum of Professor Hansen's production is the most delicious of all plums. It is hardy and very prolific, fruit of largest size, deep red color and a delicious flavor.

*On native roots.

PRICES OF APPLES AND CRAB APPLES—ALL VARIETIES

	Add postage and packing	
Size, 4 ft., 9/16 in. caliper:		
1 tree	\$.79	\$.17
3 trees	2.10	.30
Size, 11/16 in. caliper and up.		
NOT MAILABLE account size:		
1 tree	\$1.10	
3 trees	2.95	

PRICES OF PLUMS ALL VARIETIES

	Add postage and packing	
Size, 3 to 4 ft., 7/16 in. caliper:		
1 tree	\$1.15	\$.17
3 trees	2.95	.30
Size, 11/16 in. caliper, NOT MAILABLE account size:		
1 tree	\$1.69	
3 trees	4.59	

FRUITS—FOR HOME OR ORCHARD

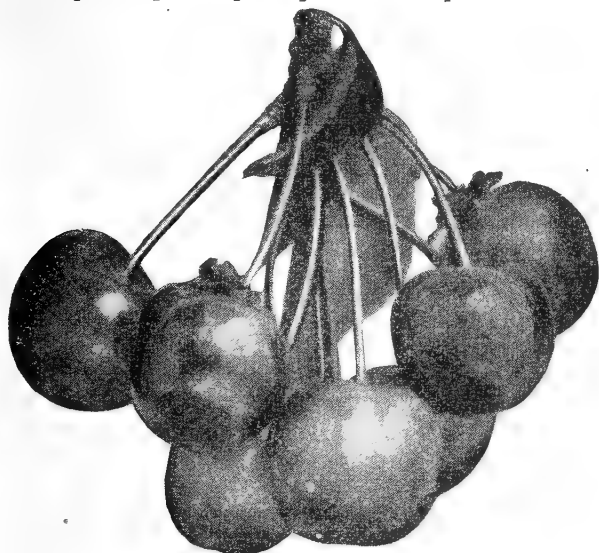
APRICOT

CHINESE APRICOT. Best general purpose apricot. Well colored and ripens from outside in. Medium size, round, with red blush when ripe. Used extensively on Western Slope of Colorado and in Utah.

MANCHU. Hardy, good grower and well foliated. Slightly smaller than Chinese apricot. Ripens with red blush, good eating fruit.

11/16 size in either of above varieties: (Each \$1.95) (3 for \$5.70).

Too large for mailing except by severe pruning. If shipment by mail is desired, add 15c per tree for packing and postage and 24c per 3 trees.



**EARLY RICHMOND
CHERRIES**

More satisfaction can be had from Cherry trees than any other trees. They are a beautiful sight from blossom to fruit and very seldom fail to produce; every farm, garden or ranch should have cherries. They do not demand much attention.

SOUR CHERRIES

EARLY RICHMOND (Pie Cherry). A reliable old standard, with bright red fruit of medium size, very productive.

ENGLISH MORELLO. Large, dark red, nearly black; tender, juicy and rich. Tree is dwarf midseason.

LARGE MONTMORENCY. Larger and finer than the Richmond and one of the finest flavored cherries in this class; valuable for canning and preserving.

PRICES OF SOUR CHERRIES ALL VARIETIES

		Add postage and packing
Size, 3 to 4 ft., 7/16 in. caliper:		
1 tree	\$1.49	\$.17
3 trees	4.35	.30
Size, 11/16 in. caliper and up.		

NOT MAILABLE:

1 tree	\$1.95
3 trees	5.70

SWEET CHERRIES

In planting sweet cherries, one Black Tartarian should be planted to every four or five of other varieties of sweet cherries as the former acts as pollinizer for the latter, and they will not bear without the help of the Black Tartarian. All of the sweet cherries we list have the same blossoming period.

BLACK TARTARIAN. Very large, black; sweet and juicy. Bears in July.

BING. One of the largest of the sweet cherries. Deep dark red. Flesh firm and juicy. Tree is a strong grower and producer. July bearer.

LAMBERT. Large dark red, wonderful flavor. Bears later than either of above varieties.

PRICES OF SWEET CHERRIES ALL VARIETIES

		Add postage and packing
Size, 11/16 in. caliper and up.		
1 tree	\$2.20	\$.15
3 trees	5.90	.24

HANSEN'S BUSH CHERRY. A very useful as well as ornamental shrub. A mass of white flowers in the early spring, followed by fruits, cherry-flavored but plum shaped. Foliage quite decorative in the fall, turning to red and bronze.

3 to 4 feet (Each 85c) (3 for \$2.40).

Add postage and packing: (Each 10c) (3 for 22c).

PEACHES

ELBERTA. Large, juicy freestone peach that adapts itself to various soils. Fine flavor and a good one for canning. Ripens about mid-September.

HALEHAVEN. Hardy. Large dark yellow fruit with red meat. Ripens evenly with distinctive red blush. Wonderful as a canner.

POLLY. Hardy, white meat, yellow skin. Freestone and an early bearer.

J. H. HALE. Yellow skin, overlaid with carmine. Freestone, good flavor and midseason bearer.

PRICES ON PEACHES

Mailable only by severe pruning

Choice of varieties, 11/16 size: (Each \$1.39) (3 for \$3.80).

If shipment by mail is desired, add 15c per tree for packing and postage and 24c per 3 trees.

PEARS

DWARF BARTLETT. Same good fruit as the regular Bartlett but of dwarf growth, attaining a height of only 10 to 12 feet at maturity.

5/8 in. caliper, about 4 ft. trees: (Each \$2.19).

Postage: (Each 10c).

BARTLETT. Large, buttery, juicy, high flavored; bears early and abundantly.

FLEMISH BEAUTY. Large, red cheeked and beautiful, of excellent quality, hardy and productive. Very popular in the West. Ripens September and October.

SMALL FRUITS AND BERRIES

Pears—Continued

KIEFFER. Its large size, handsome appearance and remarkable keeping qualities make it very desirable. Ripens October and November.

PRICES OF PEARS

EXCEPT DWARF TYPE Add

Postage

Size, 3 to 4 ft., 7/16 in. caliper and Packing

1 tree\$1.19 \$.17

3 trees 2.95 .30

Size, 11/16 in. caliper and up,

NOT AVAILABLE account size:

1 tree\$1.69

3 trees 4.80



HOUGHTON

HOUGHTON. An enormously productive and always reliable old sort. Of vigorous yet rather slender, spreading growth, not subject to mildew. Fruits of medium size, smooth, dark red, tender and good.

MULBERRY

RUSSIAN MULBERRY (Morus Tartarica). Very hardy type, makes good shade. Hard wood, not susceptible to insects or worms, growing 25 to 30 feet. Edible fruit to two inches long, red, white or black. Thrives in a dry sunny location. For orchard purpose plant 25 to 30 feet apart. If used for hedge or screen plant from 8 to 20 feet apart. 5 to 6 feet.

(Each \$1.35) (3 for \$3.49).

QUINCE

QUINCE. The fruiting variety of Quince is grown for the fruit to be used as flavoring for jams and jellies. Its shape is similar to the Bartlett pear, bearing when 3 to 4 years old. Does best in a medium heavy, deep soil, although it does not root deeply, and will not stand being forced into rapid growth.

5/8 in. caliper: (Each \$2.19) (3 for \$5.90).

Add postage and packing: (Each 12c) (3 for 27c).

GOOSEBERRIES

(2-year, No. 1)

The Gooseberry differs little from the Currant in its requirements as to soil and general care. The plant is hardy, a vigorous grower, and free from mildew in our climate.

CHAMPION. Berries large, green color, very sweet and fine for table use and pies. Bush a strong grower, healthy and a very prolific bearer. Fine for market. Early.

DOWNING. Large pale green berry. Midseason bearer. Strong, robust plants and very hardy.

GOOSEBERRY PRICES

	Each	10	25
All Varieties	\$.39	\$3.70	\$8.90
Add postage and packing .....	.07	.12	.23

CURRANTS

(2-year, No. 1)

The Currant is an indispensable garden fruit for the table and is a money-maker as well. It grows and bears easily in any kind of soil with very little care, but if properly cared for it will bring greater returns in money.

CHERRY. Medium size berries on short clusters; a robust, faithful sort.

FAY'S PROLIFIC. As its name implies this variety is very productive, bunches and berries being very large. Excellent quality and easily picked. Very hardy.

PERFECTION. Beautiful bright red fruit, larger than Fay, holding its size to end of branch; easy to pick; a superior bearer, less acid and of better quality than any other large currant in cultivation.

WILDER. One of the strongest and most productive. Bunch and berries very large, attractive dark red color, and even when dead ripe, they hang on bushes in fine condition for handling until very late. A valuable market variety.

CURRANT PRICES

	Each	10	25
All Varieties	\$.29	\$2.70	\$6.35
Add postage and packing .....	.07	.12	.23

SMALL FRUIT PLANTS

Small fruits are very profitable for the home and market. They are all of delicious flavor and can be used for the table in many ways. Their canes should be protected during winter by covering with dirt or straw.

BOYSENBERRY

REGULAR BOYSENBERRY. The BOYSENBERRY is a new variety produced by crossing blackberries, raspberries and loganberries. Seeds are few and soft. From our past experience with this berry we find it to be very hardy and a vigorous grower, but should be protected by a covering of straw, leaves or dirt during the winter in northern climates. The fruiting season lasts longer than the other vine berries and they will bear heavily the second year. Should be planted about six feet apart.

BLACK RASPBERRY PLANTS

CUMBERLAND. It is of wonderful productiveness; producing regularly and uniformly very large crops. In size the fruit is large, far surpassing any other variety. Few seeds, fine flavor.

LOGAN. Black tips. A fine new variety. Fruits are large, jet black, tasty and sweet. Matures a few days before Cumberland. Hardy, drought resistant plants.

RED RASPBERRY PLANTS

LATHAM. This berry is the leading berry wherever raspberries can be grown. High quality, large, hardy, better shipper than many other varieties. Good color. On account of its good qualities, it is now planted more extensively than any other red raspberry.

CHIEF. A bright red "no crumbling," good shipper, and of delicious taste. Supplements Latham by ripening ten days earlier. A new Minnesota product.

COLUMBIAN. Very large, purplish color. Somewhat soft; of rich flavor and fine for canning. Bush vigorous and a dandy cropper.

EVERBEARING RASPBERRY PLANTS

INDIAN SUMMER. A superior type of raspberry that bears a beautiful red fruit of wonderful flavor. More prolific and a larger berry. Canes are large and grow rapidly, bearing early and throughout the summer.

PRICES ON RASPBERRY AND BOYSENBERRY PLANTS

Quantity	5	10	25
All Varieties	\$.69	\$1.29	\$2.95
Add postage and packing .....	.10	.15	.20

DEWBERRIES

LUCRETIA. In size and quality this low growing or trailing blackberry equals any of the upright sorts. Its berries ripen before raspberries are gone, are large, sweet, soft and luscious throughout, with no hard core. The vine is perfectly hardy, healthy and exceedingly fruitful, with large, showy blossoms. May be grown over walls, trellises or rocky slopes, where there is no room for other berries.

BLACKBERRIES

ALFRED. A new variety which is very hardy and a heavy bearer. Berries are large, up to 1½ inches long, almost coreless and a wonderful flavor. Will stand below zero weather. Ripens about a week earlier than Eldorado.

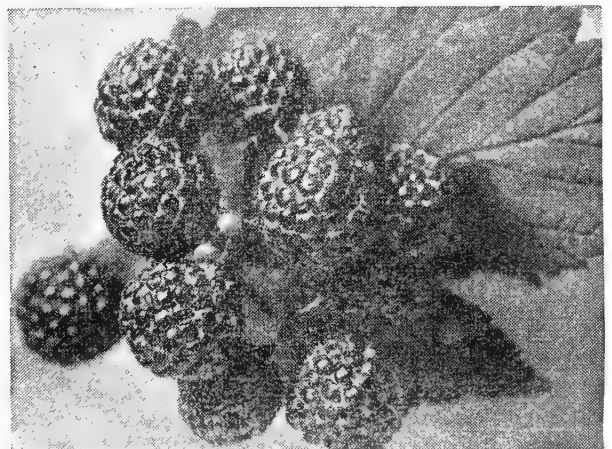
EARLY HARVEST. Its earliness, combined with good shipping qualities, makes it a very profitable variety. The fruit is of medium size, firm and attractive in appearance. Dwarf and compact grower.

ELDORADO. Of late introduction, being vigorous and hardy in most localities. The berries are large, coal black, flavor sweet and melting and have no hard core. Very firm and therefore an excellent market variety.

SNYDER. Berries of medium size, sweet, melting. Very hardy and wonderfully productive. Valuable for cold climates as it leads where hardiness is a consideration. Early.

PRICES ON BLACKBERRIES AND DEWBERRIES

Quantity	5	10	25
All Varieties	\$.69	\$1.29	\$2.95
Add postage and packing .....	.10	.15	.20



LOGAN BLACK TIPS

STRAWBERRIES

CULTURE: A good many people overlook the Strawberry, thinking the plants demand too much care, but this is not true. Strawberries will succeed in any soil that is adapted to ordinary farm or garden crops. For field culture set in rows three feet apart, 18 inches in rows; for garden, 15 inches each way, leaving pathway every third row. The ground should always be kept clean and well cultivated. In winter, a covering of leaves, straw or some kind of litter will protect the plants. Do not cover them until the ground is frozen, or so deep as to smother plants, and remove covering before growth starts in the spring. It is best to change the location of the bed about every three years and do not fertilize heavily as it tends to produce foliage instead of fruit.

EVERBEARING STRAWBERRIES

Everbearing plants bear the same year they are started, but if a large amount of late berries are desired, it is better to pinch the blossoms during May and June, which causes the heaviest crop to come on during September and October.

ALPINE STRAWBERRY PLANTS. A new everbearing strain producing an abundance of dark red, elongated berries of unusual flavor, half as large as commercial varieties, easily picked. Plants produced from seed only, make no runners, very effective in borders or beds. See seed on page 55. **Plants: 10 for \$1.20; 50 for \$4.95. Postage and packing: Per 10 10c; per 50 25c.**

20TH CENTURY EVERBEARING. The best everbearing. After 2 years in our own trial grounds we found it remarkable, both in size and yield. Produces an abundance of large dark crimson berries of excellent flavor.

Plants set out in late April will start bearing in August and continue until freezing weather.

We regret that our supply of plants is very limited and can quote only in the following quantities.

		Add Postage and Packing
10 plants	\$.65	\$.10
100 plants	4.90	.17

In setting strawberry plants, place them on the upper side of a ditch and as near the same depth as they were growing before being taken up for transplanting. Be sure not to bury the crown and also not to plant with the crown exposed.

STREAMLINER. A newer variety that has proven its worth in Colorado the past two or three years. Berries are of uniform size, large, conical shaped and glossy red. The delicious, sweet flavor requires a minimum of sugar. Wonderful berry for canning or quick freezing. Bears from July to freezing weather.

GEM. Has a very good flavor, dark red and firm. Fruits are large, tender and juicy. Very prolific in the production of plants which have dark green foliage. Hardy and a good commercial as well as a good home garden berry.

PRICES

	Not Postpaid			
	25 Plants	100 Plants	500 Plants	1000 Plants
Gem	\$.65	\$2.35	\$10.90	\$19.90
Streamliner .....	.75	2.80	11.85	22.35
Include postage and packing.....	.10	.17	.38	.78

HARDY GRAPE VINES

Everyone should plant Grapes in the home garden. Grapes are easy to grow and do well in any ordinary soil. They can be trained over frames, trellises or doorways and are ornamental as well as practical. Make your own grape juice, etc.

BETA. It is a cross between tame and wild. Hardy, prolific and fine for cooking and jelly. Color similar to Concord.

CACO. Hardy in Colorado. Fine for table use. Red skinned and sweet.

CONCORD (Black). The fine old market leader, with large, handsome clusters of big, luscious grapes. Entirely hardy, productive and reliable; succeeds well over a great extent of country.

FREDONIA. Bears a little earlier than Concord.

Large bunches of blue-black fruit that cannot be excelled for canning of all sorts. Very well recommended by growers as a hardy and good producer in Colorado.

PORTLAND. A white grape that is hardy and of very good flavor. Skin medium, few seeds and a heavy producer. One of the best whites.

PRICES ON GRAPE VINES

	Add Postage and Packing			
	Each	10	25	50
Concord	\$.25	\$2.40	\$5.75	\$10.50
Caco and Portland .....	.39	3.60	7.95	15.50
Other Varieties....	.35	3.15	6.95	13.10
Include postage and packing....	.07	.24	.39	

SEED SPRING WHEAT

THATCHER WHEAT. A new beardless, hard red spring wheat that yields at the Fort Collins Station about the same as Komar. It is adapted to irrigated conditions only and may replace Komar in this area. It is rust resistant.

MARQUIS WHEAT is the standard, hard, red, spring wheat for irrigated sections of the West. It is early maturing and high yielding. It is beardless, short, stiff-strawed.

REWARD WHEAT is a very new, high yielding, beardless, hard, red spring wheat for the drylands and non-irrigated areas. It has proven satisfactory under irrigated conditions where the water supply is limited. It shows promising for milling and baking.

SEED BARLEY

BALD or NEPAL BARLEY. An early variety that withstands drought remarkably well and oftentimes surviving when wheat fails. It has no beard and shells off its hulls the same as wheat. A very desirable crop for green feed or hay or for grain.

LICO BARLEY is a smooth awned (without barbs on beards), six-rowed, hulled barley. It has less flinty kernels and is earlier and stiffer strawed than Trebi. Adapted to irrigated conditions.

TREBI. Six-row, bearded, hulled barley with large, bluish kernels, and comparatively weak straw. The standard for irrigated sections of the state.

BEECHER BARLEY is a new semi-smooth awned barley adapted to dry land. It is stiff strawed. Has a high bushel weight and outyielded Club Marioutt. It has replaced the older Flynn Production.

CLUB MARIOUT BARLEY. A six-row, rough awned, hulled, early barley; particularly adapted to eastern Colorado non-irrigated plains section. Will yield one-third more than Trebi in its region of adaptation, and 70 per cent of Trebi under irrigation. Could be used to advantage on irrigated land with early water where only one irrigation is available.

SPARTAN BARLEY. A two-rowed, smooth awned variety for dry lands. Inclined to shatter under combine conditions but has good bushel weight. It is a worthwhile kind for dry places.

SEED RYE

SPRING RYE is an excellent soiler and can be produced on poor, worn out land under dry conditions where other grains would fail. It is useful as a cleaning crop for the purpose of eradicating wild oats. Makes early pasture and may be cut and cured for hay. When sown with vetch its value for pasture and hay is greatly enhanced.

WINTER or FALL RYE serves a very useful purpose for pasture and hay. May be sown in spring and summer as well as fall. When Winter Rye is sown after frost it goes into the following season before maturing, making it a biennial.

SEED OATS

BLISS SIDE OAT is a white side oat adapted to irrigated land. This variety is noted for its abundant yield of oat hay in the mountain areas.

BRUNKER OATS are well adapted to dry land, being early maturing, smut and drought resisting. They are a red oat and were developed by the Akron Experiment Station. This variety suggested in place of Texas Red Rust Proof. It is the leading dry land oat.

FULTON OATS, generally known as a red oat, but the kernel is not as red as Kanota which it replaces. It is smut resistant, stiff strawed and early enough for mountain planting.

BANNOCK OATS is a plump, smut-resistant, white, midseason variety that has produced higher yields than any other irrigated variety in Colorado. It is a little earlier than Colorado 37 and the straw is finer but stiff. A limited amount of registered seed is available this year.

COLORADO NO. 37 OATS. This oat is well adapted for irrigated areas of Colorado. It is a midseason white oat. It is characterized by its high yield; its straw and awnless kernels.

VICLAND and VICTORY OATS. Similar to Colo. No. 37.

MARKTON OATS. A medium sized white variety, smut resistant, that does well under irrigation in warm or hot localities.

PRICES

Prices will be issued on Farmers and Ranchers Price List.



ROSEN and PETKUS have been the prominent varieties of Fall Rye.

BALBOA is an improved variety, producing grain and pasture in abundance. It is claimed that milk from cows pastured on Balboa Rye will not be tainted.

CLEANED
TESTED

ALFALFA

FIELD
SEEDS



Alfalfa is more nearly a perfect forage crop than any other crop grown in this country. No other forage crop cultivated in the United States is utilized more successfully in so many ways as alfalfa (*Medicago Sativa*). The translation of the name, which is of Arabic origin means "the best fodder." Sow in spring and fall in firm seed bed at the rate of 15 to 20 pounds per acre.

REGISTERED ALFALFA

The following varieties of alfalfa seed are registered when produced under State supervision. The supply of seed of most varieties is short and seed of some is not yet produced in commercial quantities. The registered varieties have been selected and registered on account of their hardiness.

GRIMM ALFALFA. This variety is probably the earliest and best known of the pedigreed varieties. Introduced to Minnesota years ago by Wendelin Grimm. It has proven ability to withstand drouth and winter-killing and these fine qualities have been increased by continuous selection. It is a worthy variety for the inter-mountain area.

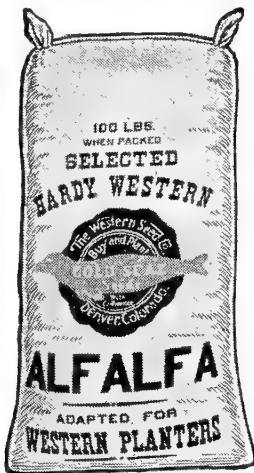
BALTIC ALFALFA. Seed of this hardy variety, grown in Colorado, is known as Colorado Baltic and Meeker Baltic. Introduced from Europe and propagated at Baltic, South Dakota for a period of years, afterwards brought to Meeker, Colorado, where it has consistently withstood drought and extreme cold for many years. It produces high yields of forage.

COSSACK ALFALFA was introduced by the United States Department of Agriculture into this country in 1907, from Russia. Cossack is just another hardy variety.

LADAK ALFALFA. Shows promise of resistance to wilt. It is hardy and produces a heavy first cutting, recovers slowly after cutting, but again makes rapid growth. Ladak is recommended for short season areas where two cuttings would be maximum and where water for irrigation is short. It is replacing Meeker Baltic—the supply of which is uncertain.

BUFFALO ALFALFA. A bacterial wilt-resistant selection from Kansas Common variety. It is highly resistant to bacterial wilt, is high yielding, has purple colored flowers and is similar to Kansas Common in all other respects.

RANGER ALFALFA. Is a synthetic variety developed by compositing five strains. The origin of the strains was inbred lines subsequently outcrossed among other selected lines from Cossack, Turkestan, and Ladak varieties. Ranger was developed cooperatively by the Nebraska Experiment Station and the Division of Forage Crops and Diseases, U. S. D. A. It is resistant to bacterial wilt, is winter hardy and has variegated flower color with a limited number of yellow colored flowers. Ranger Syn 1 and Syn 2 have yielded well in tests in Colorado.



HARDISTAN is a U.S.D.A. development that is wilt-resistant. Meeker Baltic will outyield it. Sets seed sparsely and seed is not yet produced in commercial amounts.

COMMON ALFALFA

is the name applied to the purple flowered, smooth strains of alfalfa. We are usually able to supply such seed grown from Colorado, Utah, Wyoming, Montana and New Mexico; from northern latitudes, high elevations and dry lands. As a safeguard to buyers, we have adopted certain grade standards that have been scrupulously maintained for so long, they are now generally recognized as dependable. Gold Seal and

Gold Bee grades of Alfalfa seed are packed in branded bags. All seed is tested for purity and germination and tag showing the analysis is attached to each bag.

To meet the general conception of "premium grade" we are changing the purity requirements of our Gold Seal Grade to 99.25 per cent instead of 99.50 per cent.

GOLD SEAL GRADE. Alfalfa seed 99.25 or better pure, good color, free of noxious weeds, is packed in 100-pound bags, branded with the Gold Seal emblem as illustrated above.

GOLD BEE GRADE. Alfalfa seed 98.50 or better, pure, not quite as bright or plump as the Gold Seal Grade, is packed in 100-pound bags, branded with the Gold Bee emblem as illustrated below. The seed has good value.

Alfalfa Seed of Southern Origins have served a place in short crop rotations producing usual hay tonnage during the short cropping term; introducing and adding Nitragin to the soil through the roots; supplying the all necessary vegetable humus when plowed under. Seed from Arizona and Southern New Mexico has proven just as satisfactory as Argentine Alfalfa Seed in the low-priced field.

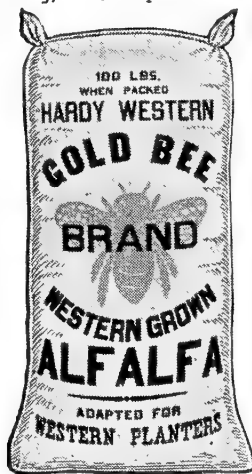
INOCULATE ALFALFA

Inoculation of Alfalfa Seed brings better stands or "catch," healthier and more tender plants. This makes greater soil improvements and increased yields of richer protein hay and forage. Use Nitragin inoculation. Page 92.

KNOWN ORIGIN

We keep a certificate of the locality where each lot of non-registered Alfalfa seed is grown.

Prices on Alfalfa seed will be supplied later on Farmers and Ranchers Price List.



Clovers, being leguminous crops, are soil builders, and are very useful for the farm or ranch. They are used for mixtures of hay and pasture as well as sown alone.

YELLOW BLOSSOM SWEET CLOVER (*Melilotus officinalis*). Like White Blossom Sweet Clover this will grow on almost any kind of soil. It is semi-dwarf in habit, very drought-resistant, and is very desirable for forage, hay, and pasture. *Melilotus officinalis* is a biennial.

MADRID SWEET CLOVER is an improved variety of biennial Yellow Sweet Clover, has early seedling vigor, resists fall frosts, is slightly later in maturity and produces greater yields than the Common Yellow biennial. It is particularly adapted to the Great Plains and the Corn Belt. It contains less Coumarin which is the substance that prevents blood from clotting and causes cattle that have been fed Sweet Clover Hay to bleed to death. This danger would seem to be lessened by using Madrid Sweet Clover.

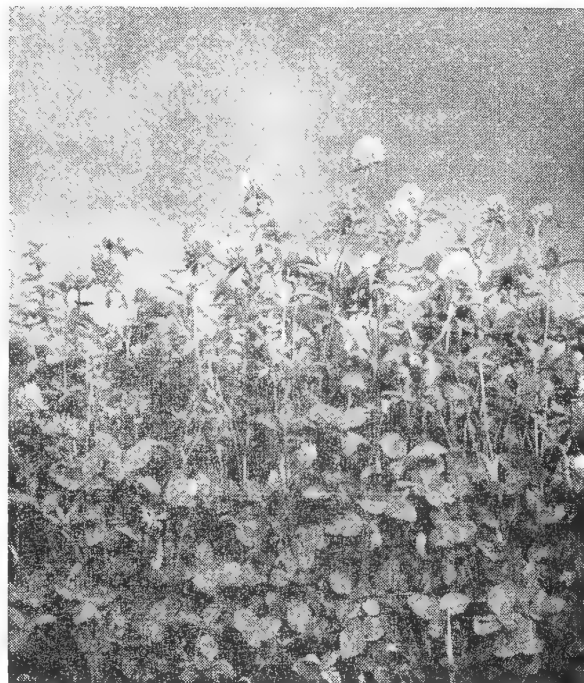
SWEET CLOVER. Mostly *Melilotus alba* which is also known as Bokhara Clover. It is a hardy biennial plant that will grow in all climates and with little regard to the character of the soil. Withstands extreme heat and cold, is quite drought-resistant, and will tolerate alkali. This Sweet Clover has value as a forage crop and hay crop and is very efficient as a silage crop, and should be given consideration in crop rotations.

HUBAM SWEET CLOVER (*Melilotus alba annua*) is an annual white, resembling the biennial white in appearance but making no resting buds and producing seed the season of sowing. When a catch crop is wanted, especially when the field is to be fall-plowed, it is useful.

MEDIUM RED CLOVER (*Trifolium pratense*) is sown at rate of 15 pounds per acre and may be seeded any time from April to October. Makes good hay and pasture and is adapted for planting with numerous grasses when either hay or pasture is desired. 8 to 10 lbs. per acre.

LADINO CLOVER (*Trifolium repens latum*) is a giant white variety—a perennial of the creeping type and is not badly affected by freezing and thawing. It has good carrying capacity and is therefore desirable for pasture, doing well in mixtures with tall growing grasses. The seed is small and must be planted shallow in a firm seed bed and may be sown either in the spring or fall. The growing season seems to be nine months. It is not subject to alfalfa diseases and is considered hardy up to 5,280 feet. Four to six pounds per acre is generally sufficient.

SPECIALLY PREPARED BULLETINS on most of the clovers available on request.



MAMMOTH RED CLOVER

MAMMOTH RED CLOVER is especially valuable for light, sandy soil for fertilizing purposes. It grows more luxuriously than Medium Red in the same length of time but only affords one cutting. It does make excellent grazing and good hay if cut when young, but if left too long it then becomes thick and woody. Sow 8 to 10 pounds of seed to the acre.

STRAWBERRY CLOVER (*Trifolium fragiferum*) is a most important crop for converting seepy, alkaline soils into income-producing pasture. It is one of the pasturage plants for the conditions under which it thrives but is not a hay plant. It is a perennial and may be propagated from seed or by its creeping stems or runners. Grows very dense, spreads rapidly and tends to crowd out all other forms of vegetation. Strawberry Clover likes "wet feet." It has been found making good growth with most of the vegetative parts submerged in water. Rate of seeding varies from 2 to 6 pounds per acre.

SUBTERRANEAN CLOVER (*Trifolium subterranean*) is a prostrate, soft, woolly annual covered with fairly long soft hairs. The stalks turn downward and push the seed head below the surface of the soil. This characteristic makes this clover equivalent to a perennial. It grows well on both poor and rich soils and enriches soils by adding humus and nitrogen. It is very valuable as a soil cleaner, choking out many weeds. Subterranean Clover will not taint milk and is nutritious and palatable.

PRICES

Clover Seeds in 100-pound quantities or over will be priced on Farmers and Ranchers Price List.

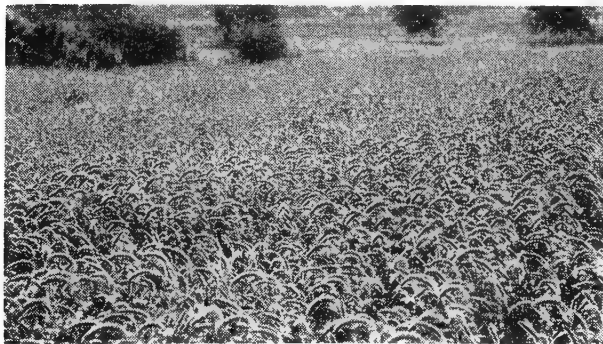
The many varieties of Millets serve well for hay, forage, and growth crops. They afford a quick, luxuriant crop of hay of good feeding value without cultivation. On account of their quick luxuriant growth, they aid in checking weeds and are of value for this purpose on irrigated lands. As millets can be planted late in July, they are used extensively for emergency crops. As a smut preventive soak millet seed in formaldehyde solution for two hours, using one pint of formaldehyde to 45 gallons of water. Sow about 1/4 inch deep and in rows 12 to 16 inches apart.

HOG MILLET is the Proso or Common Millet of the old world. It is also known as Hershey, Broom Corn Millet, Manitoba and Dakota Millet. When forage or hay is desired the crop should be cut early. The seed has a slightly higher feeding value than oats and is used extensively in mixed feeds. Of the Hog Millets, Red Turghai, Early Fortune and Yellow Manitoba are the best adapted varieties.

BIG GERMAN MILLET has long heads crowded full with myriad seeds; small stems, luscious and highly palatable, clustered thick with fine narrow leaves. This is a very valuable variety for hay and forage, for general feeding, for milk production.

SIBERIAN or Red RUSSIAN MILLET is a very fine, early, extremely hardy, drought-resistant variety. Produces big. Forage is quite palatable. Seed has high feeding value.

WHITE WONDER MILLET is early and productive. Heads are from 8 to 18 inches long. The foliage is heavy; the leaves broad but the fodder cures readily. The seed contains a low percentage of fiber, is therefore very fattening and makes good feed.



WHITE WONDER MILLET

DWARF ESSEX RAPE is a forage plant of highest value. It can be sown in April for early crop and for fall crop in July, August, and September. It is used as a catch crop, also for summer pasture for hogs and cattle.

MISCELLANEOUS SEEDS

COLORADO STOCK or SAN LUIS VALLEY FIELD PEAS are valuable for their grain and straw. They provide good forage and hay and are valuable as a soilage crop. They are also excellent as a nurse crop for alfalfa. When sown for seed about 80 pounds per acre is necessary, but for hay may be sown at the rate of 100 pounds per acre and as late as July.

SAND, WINTER or HAIRY VETCH is a mighty fine crop to sow in the fall as soon as the crops have been harvested. It has also been sown in the spring. Vetch is a legume plant like alfalfa and peas. It produces hay of high protein value and is also a good soilage crop; also introduces nitrogen into the soil the same as alfalfa and clovers.

SPELTZ or SPRING EMMER resembles barley and wheat. Is of rapid growth and ripens early. Withstands more drought and unfavorable soil and weather conditions than most grains.

BUCKWHEAT does best where the climate is moist and cool, but it is sensitive to cold. It is a short season, early maturing crop. It can be sown quite late. It is a good crop for poor, thin land, and does well on acid soils. It is used as a soilage crop.

SOUTHERN BLACK-EYED PEAS resemble beans in shape, make a large vine growth and are an excellent soil improver. The peas make a most desirable and healthful table dish and are in great demand during the winter. They are also used green during the summer.

SUNFLOWERS are a good silage crop for dry land. They may be sown earlier than corn as light frosts do not injure. The silage is very palatable and has high feeding value. Plant close in drills 4 to 5 inches apart, and rows 30 to 42 inches apart. Cultivate and handle similar to corn. Five to six pounds per acre is sown.

FLAX may be grown with good success in the West. It matures quickly and may be planted as late as the middle of June and make a matured crop. Takes very little fertility and moisture from the soil and yields 10 to 20 bushels per acre. May be used with success as a nurse crop for clovers and grasses, and is the most desirable crop to follow on native sod.

PEANUTS can be successfully grown in almost any place where corn succeeds, but thrive best on light sandy soil. The vines are valuable feed for horses, cattle, and sheep. One acre will produce from 1 to 8 tons of vines. We will be able to supply improved Large Virginias and also Spanish varieties.

Prices: (lge. pkg. 10c) (1 lb. 40c) (5 lbs. \$1.75) not prepaid.

PRICES

Prices will be given on request on Farmers and Ranchers Price List.

Sorghums have proven that they "can take it." They adapt themselves to sandy soils and are drought and grasshopper resistant. Their principal use is for fodder, but they are also grown for grain and seed.

Plant 4 to 6 pounds per acre on dry land and 8 pounds on irrigated land; when drilled or broadcast, 50 to 60 pounds are required. The most successful practice for the production of sorghums on dry land is fall listing followed by light harrowing in the spring before the planting date to control weeds. Plantings should be made in the old lister furrows. Planting should be delayed until the soil is warm enough to insure good germination. In general, sorghums should be planted during the latter part of May or early in June, which is about a week later than the normal time for planting corn. The germination of sorghums is commonly not high and no untested seed should be planted. Sorghum seeds are particularly susceptible to destruction by soil organisms known as fungi. An excellent insurance against poor stands from this cause is to treat the seed with a mercury dust compound which will also control smut. For information see page 86. The stalks of sweet sorghums contain sweet juices, are very leafy and are generally grown for hay and fodder. The stalks of the grain sorghums are dry and pithy and they are grown for grain. They are non-saccharine.

SWEET SORGHUMS

ATLAS SORGO is a large, long-season forage sorghum developed at the Hays, Kansas, Experiment Station. It is quite drought resistant and produces big yields under favorable conditions. Being very leafy, it is used to a considerable extent for the production of silage in Kansas, eastern Colorado and Arkansas valley.

AMBER CANE, maturing in 80 to 100 days, is the favorite in many sections because it is the earliest. Usually slightly mixed black and red, or red and black.

IMPROVED COES SORGO is a white seeded, semi-sweet dual purpose crop. The five stemmed, leafy stalk and the seed are very palatable. Seed threshes free from the hull.

LEOTI RED CANE produces a semi-compact reddish head that droops slightly at the tip when ripe. The stalk is sweet, juicy and leafy. Matures at about the average fall frost date when planted June 1st to June 6th.

ORANGE CANE, maturing in 100 to 110 days, has higher sugar content and produces more fodder than black and red. There are two varieties in common use—Red Orange and Sourless Orange or African Millet.

RED TOP, SUMAC OR REDHEAD CANE, matures 115 to 125 days, and is very popular where good forage is required. It is very leafy, sweet and has high feeding value. Seed threshes free from the hull.

FREMONT CANE, a selection from Orange Sorgo, similar to Early Sumac. Matures about the same time as black amber.

TEXAS SEEDED RIBBON CANE, GOOSENECK, HONEY DRIP and SUGAR DRIP are large, leafy, sweet varieties producing good forage when the season is long enough for them to mature. Also used to some extent for sorgo 'lasses.

MIDLAND—A new late maturing sorghum suitable for Arkansas Valley and South. Midland is a dual purpose crop. Has a sweet stalk. Is dwarf and suitable for combining.

GRAIN SORGHUMS

BLACKHULL WHITE KAFIR, maturing 115 to 140 days, grows 5 to 6 feet tall. Stalks are dry, pithy and slightly acid, with 12 to 16 leaves. Grain is white and makes good poultry feed.

CHEYENNE SWEET STALK KAFIR is an early maturing white Kafir growing on a sweet stalk. It is a dual purpose crop providing good grain and palatable fodder.

HEGARI is a grain sorghum resembling Kafir and Atlas Sorgo. Grows 4 to 5 feet tall and matures in 120 days. Makes an excellent grain crop and fodder that is relished by stock. Seeds are chalky white. Stalks fairly sweet. Leaves broad, long and numerous.

HIGHLAND KAFIR is a white seeded dual purpose crop, producing grain of good feeding value and juicy, leafy, fine stemmed stalks with narrow leaves. It is similar to Improved Coes Sorgo, but produces a more sprangled head.

MILO MAIZE stalks are stout, pithy and scantily supplied with leaves. Milo make poor silage, but the grain has a high feeding value.

DWARF YELLOW MILO, BEAVER, SOONER, WHEATLAND, WESTLAND. These are all combine types and are the most popular, tested varieties.

SUDAN GRASS

This is an annual, non-saccharine sorghum. The straw is very palatable, and under favorable conditions, two cuttings of hay may be obtained. It can be pastured to good advantage. Plant as soon as the ground is warm or at any time during the summer so long as 70 to 80 days intervene before the first expected frost. Seeded in rows 36 to 42 inches apart, 2 to 3 pounds per acre are sufficient; in rows 18 to 24 inches, 4 to 6 pounds; when drilled or broadcast, 16 to 24 pounds. It will be possible to obtain registered stocks of both the common variety and sweet variety of Sudan Grass seed.

SWEET SUDAN GRASS. A late development that is rapidly finding favor with feeders and stockmen for hay, forage, and pasture. It contains more Saccharine than the common type and therefore better feeding value. However, the same danger of Prussic Acid poisoning still exists.

PRICES

Prices will be given on request on Farmers and Ranchers Price List.

**HYBRID CORN
IS TREATED
WITH CERESAN**

Plant Hybrid Corn

**TESTED
AND
TAGGED**

The worth of Hybrid Corn has been proven to such an extent that hybrids are being planted in greater amounts each year and in many sections have supplanted and eclipsed the open-pollinated varieties. Hybrid corn produces larger yields of both grain and fodder. Their growth and maturity is uniform. They are resistant to lodging due to greater strength in both root and stalks. They are decidedly more resistant to smut and root, stalk and ear-rot diseases. No hybrids have been developed that are recommended for dry-land planting, yet hybrids with their immense root system do withstand extreme drought and intensive heat remarkably well. Hybrid corn is packed in branded bushel bags. Prices per bushel (Subject to change) f.o.b. Denver: Pride Hybrids, \$12.00; Gold Seal Hybrids, \$10.00.

PRIDE BRAND HYBRIDS



are closed formula productions developed by expert plant breeders and their value has been proven by several years of rigid tests in field trials. The entire production operation is rigidly supervised. Seed is processed, bagged and sealed by the breeder.

PRIDE B3—(80-89 day). This early yellow hybrid averages about 5 days earlier than the B17. It has ability to start fast in cold soil and hustles right through the season. It develops good sized ears at convenient height on strong shanks of medium length. Normal height 6½ to 7 feet.

PRIDE B17—(90-97 day). This all-yellow Hybrid Corn is 5 to 7 days earlier than Standard strains of Minnesota 13. It is recommended for the higher altitudes in northern Colorado and Wyoming and for late planting in more favored sections. Very uniform in appearance, stiff stalked with deep disease-resistant root system.

PRIDE B23—(93-97 day). Closely resembles B17, matures two days later. Starts and grows fast. Has dark, heavy foliage, stiff stalk, medium short shank, ears quite erect, deep roots. Normal plant height about 8 feet.

PRIDE B45-A (103-108 day). A new addition to the Pride Family. Into this hybrid has been bred a new Pride feature—"Fall-Filled." Its great golden ears swell into September dent. Its deep roots and sturdy stalks remain green and feeding until frost. After killing frost, the loose husks and small cobs permit rapid drying and safe early cribbing.

PRIDE D54—(107-111 day). This new hybrid replaces Tru-Krost Wis. 570. It is highly adapted to varying conditions of season, soil and moisture. The stalk and root system is very resistant to disease and drouth. Very few hybrids in its maturity class are equal in lodging resistance and stalk breakage. Ears are medium length and attached to the stalk at convenient height on strong, medium long shanks. The grain is unusually deep and closely packed on a small, fast drying cob and has good feed value.

PRIDE BRAND HYBRIDS

PRIDE D66—(112-116 day). This is an outstanding new full-season hybrid that is unusually fast starting in cold, wet soil. Has astonishing resistance to drouth, disease and lodging. Has a large, rugged root system and shows capability to withstand weather extremes. It has unusually wide adaptability. Ears are long on strong, medium length shanks mounted at uniform convenient height.

GOLD SEAL HYBRIDS

This corn is grown and processed for us by a Registered Colorado Pure Seed Grower from open hybrid formulas, and supervised by Colorado State authorities. Each bushel bag bears the official, registered blue tag.



COLORADO 125—(100 day). Colorado's earliest maturing hybrid corn. It is about seven days earlier than Minnesota 13, and is adapted for northern Colorado irrigated land, 5,000 feet elevation, with comparatively short corn growing season. Wisconsin 464 is a popular short season Colorado grown Hybrid very similar to Colorado 125. Order Wisconsin 464 instead of 125.

C-15—(107 day). This is truly a fine variety. It has an abundance of dark green leaves and a showy ear borne on a sturdy stalk. It is easy to pick. In 1948, C-15 was the highest yielding early hybrid at the Fort Collins Station. The heavy yield of mature grain and desirable stalk type make this variety ideal for some of the earlier areas.

COLORADO 152 (110 day). This hybrid is widely used as a silage corn. It grows unusually tall with a fair amount of leaves and a heavy yield of grain. In the dry land sections of Eastern Colorado this variety is giving top results in the field. Colorado 152 is probably the best hybrid corn offered in the medium maturity areas of this non-irrigated section. It is not recommended as a picking corn under irrigation.

C-21—(122 day) ensilage Hybrid is a new outstanding Colorado private formula production. Suitable for silage in medium season districts—lower Plate Valley, upper Arkansas Valley and similar districts.

COLORADO 176—(115 days). This variety is similar to Colorado 175 but yields more grain and less forage. It is adapted to areas growing a later hybrid than 151.

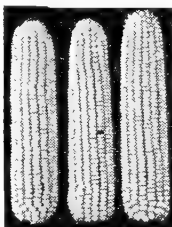
OPEN-POLLINATED CORN

WHITE AUSTRALIAN is a hard flint corn well adapted for cool climates, short seasons and dry lands. Ears are of medium size; kernels are white, smooth, shallow, rounded and flinty. 85 to 90 days.

GEHU FLINT is a yellow dwarf, flint corn growing 4 to 6 feet high. It matures in 80 to 90 days. It is not a husking corn as the ears set close to the ground, but this makes it very desirable for early hogging down. It is the earliest yellow corn and its particular use is for short seasons and dry land planting.

SQUAW CORN is a mixture of various sorts once grown by North Dakota Indians. It is often called Blue Squaw. It is early, maturing in 90 days. The ears are small; kernels are shallow, rounded, smooth and flinty; yields well. It is selected for sections where the growing season is short where grain is required.

MINNESOTA NO. 13, COLORADO YELLOW DENT are three similar varieties of high yielding, yellow dent corn—well adapted to regions of the state at elevations of 4,800 to 6,000 feet. They mature in 90 to 100 days.



COLORADO 13 was selected and adapted to Colorado conditions from Minnesota 13 for altitudes from 4,000 to 6,000 feet. This is the leading variety of yellow dent, open-pollinated corn. The blue tag assures purchasers of high-quality; that the seed in the bag is true to type.

CRAWFORD'S YELLOW DENT originated in Delta County and has been found well adapted in Morgan County and similar regions. It is a deep, roughkerneled, small cob corn.

REID'S YELLOW DENT is a selected strain of the well known Reid's Corn. This variety is standard for southeastern Colorado, the Arkansas and Grand Valleys. 100 to 110 days.

IOWA SILVER MINE is a white dent corn maturing in 100 to 110 days. Is often referred to as "The National Corn." The cob is small and white. The kernels are deep, white, and rather smooth, dented but not hackle crowned. It has a deep root system which enables it to withstand drought and adverse conditions exceedingly well.

CALICO is a medium early, mixed dent corn maturing in 100 days. Kernels are variegated, being speckled or mottled red, white and yellow. The stalks are leafy; the ears are carried high. Calico corn has a high protein content making it a very efficient feed.

POP CORN

HYBRID SOUTH AMERICAN POP CORN—This new four-way or double cross hybrid is a big vigorous-growing South American Pop Corn with tremendous yields. It has stiff vigorous stalks with tremendous root systems.

Prices: postpaid (1 lb. 60c) (5 lbs. \$2.50).

SOYBEANS

SOYBEANS are annual legumes widely adapted to various soils and not difficult to grow, are excellent as a summer catch crop and splendid soil builders. Soybean hay is one of the best roughages, and when mixed with corn they make splendid ensilage. When harvested for seed, they should not be cut until pods are fully matured and the beans hard. They may be harvested by binder or combine. Sow 25 to 100 pounds per acre depending on the size of seed, method of seeding, use of crop, and soil conditions. Soil should be kept mellow by frequent cultivation. Manchou and Illini are well recommended varieties.

BANSEI EDIBLE SOYBEANS. A very early type, well adapted for short season areas. Ready for picking as green shelled beans in 100 to 96 days. A fine home garden variety. Plants erect and of medium height. Pods yellow. Beans yellow, elliptical, of mild, pleasing flavor. Prices: (lb. 35c) (5 lbs. \$1.50) (10 lbs. \$2.50) not prepaid.

FIELD BEANS

GREAT NORTHERN BEANS, also called Large White Marrowfat, White Mexican, White Kidney and Western White Wonder. Resemble the Pinto in size and shape.

PINTO or MEXICAN BEANS are the leading commercial beans of the West. Pinto Beans will grow on dry land, yielding as high as 1,100 pounds per acre.

RANGE GRASSES of recent approval

TALL WHEATGRASS (*Agropyron Elongatum*) is a tall, coarse bunch grass that is showing great promises as a forage producer and in reclaiming abandoned farm lands. Livestock graze it well.

RUSSIAN WILD RYE (*Elymus Juncens*) is an erect perennial bunch grass. It is better adapted for pasture than hay. Late in the season it is readily eaten by cattle with apparent relish. No other grass in the dry land areas seems to be as well suited for late grazing.

CANADA WILD RYE (Mandan Strain) (*Elymus Canadensis*). The main virtues of this variety are ease of establishment, rapid growth and high yields of forage. Used to great advantage in mixtures with grasses that are slower in establishment. Tolerates some alkali.

SIDE OATS GRAMA GRASS (*Bouteloua Curtipendula*) is the most widely distributed of all the gramas. Because of its leafiness it is prized as a forage plant. It is deep rooted.

BIRDSFOOT TREFOIL (*Lotus Corniculatus*). A long lived perennial legume. Its principal use seems to be in permanent pasture mixtures where it stays green and produces excellent feed during the hot summer months.

PRICES

Unpriced items will be quoted on Farmers and Ranchers Price List issued later.

GRASSES

For Hay and Pasture

MEADOW FESCUE, ENGLISH BLUE GRASS (*Festuca pratensis*) is one of the most used grasses for hay and for pasture. It succeeds best in cold, moist, light soils, in low valleys rich in organic matter, and does not thrive on worn, dry land. It reaches its full development the second and third years. It grows quickly after being mown. The forage, either green or dried, is much relished by cattle and is very nourishing. It can be recommended for lawns where Kentucky Blue Grass would fail. Sown in the lawn, use 2 pounds to 100 square feet.

ORCHARD GRASS (*Dactylis glomerata*) is a very early and valuable grass for pasture and hay and affords more than one cutting per season. However, when only one crop is cut the undergrowth is very heavy and gives splendid and rich pasture until late in the fall. It will withstand some drought and is hardy. Well suited for shady places such as orchards and groves.

REDTOP GRASS (*Agrostis alba*) is commonly used for hay, meadows, pastures and lawns. Belongs to the bent family. It grows rapidly and often thrives where Blue Grass fails. It does not compete with Blue Grass but supplements it; thriving in lime-poor and wet soils where Blue Grass is not at its best. It is useful in restraining the growth of weeds.

REED CANARY GRASS is native to the northern part of the country and is a leafy coarse species growing 2 to 8 feet tall. It tends to bunch but spreads underground by creeping branches or root stalks. It is very palatable as pasturage and as hay. Naturally it is a grass for moist or wet land on river or lake banks subject to overflow. It starts to grow early in the spring and withstands pasturing well, if not grazed too closely.

TIMOTHY (*Phleum pratense*). Timothy is the most popular grass for hay and pasture purposes in high altitudes. It is easy to sow; does not require much seed per acre; starts growing quickly. It has a high feeding value when cut at the proper time.

ALSIKE and TIMOTHY mixed make a hay crop much richer in feeding value than timothy alone. Timothy ranks high as a hay and pasture grass but its value is enhanced when alsike is mixed with it. Alsike is one of the best clovers for hay; it is fine and very leafy.

ALSIKE CLOVER (*Trifolium hybridum*) is undoubtedly the best high altitude clover for hay, being planted extensively throughout the Rocky Mountain regions at high altitude, where alfalfa winterkills. The stems are thin, bearing a thick growth of leaves. It is a valuable forage crop sown alone or with timothy.

PRICES

Prices on Hay and Pasture Grasses will be given on Farmers and Ranchers Price List.

ALTA or TALL FESCUE (*Festuca Elatior*). A deeply rooted and strongly tufted perennial with stems 3 to 4 feet high, erect and smooth. Leaves are broad and flat. It was introduced from Europe about the same time as meadow fescue. Two strains are receiving most attention: Alta a selection in Oregon from Tall; Ky. 31 is an increase in Kentucky from tall fescue. It is adapted to a variety of soils.

TALL OAT GRASS (*Arrhenatherum Elatius*) is a succulent, high yielding bunch grass. It comes on early in the spring and remains green until late autumn. An improved strain, developed in Oregon, is being creased under the name Tulatin. Spring seeds are generally best. It has value in grass mixtures under irrigated conditions or in areas having high rainfall.



MORTON'S PASTURE MIXTURE. The following has been a popular formula for a well balanced permanent pasture mixture on irrigated land: Orchard Grass, 15 lbs.; Brome Grass, 15 lbs.; Meadow Fescue, 10 lbs.; Timothy, 6 lbs.; Yellow Blossom Sweet Clover, 4 lbs.

MIXTURE for Seepy Areas—Strawberry Clover, 2 lbs.; Alsike Clover, 2 lbs.; Brome Grass, 7 lbs.; Reed Canary, 5 lbs.

CAC PASTURE MIXTURE for Irrigated Land—Brome Grass, 8 lbs.; Orchard Grass, 8 lbs.; Meadow Fescue, 6 lbs.; Legume (Alfalfa, Alsike Clover, Red Clover or Sweet Clover), 4 lbs.

MIXTURE FOR ALKALINE LANDS. Experiments have shown that the following mixture gives fine results on lands infested with alkali: Yellow Sweet Clover, 6 lbs.; Slender Wheatgrass, 8 lbs.; Meadow Fescue, 6 lbs.; Brome Grass, 6 lbs.; Red Top, 4 lbs.

CLEANED
TESTED

GRASSES

For Range and Pasture

FIELD
SEEDS

GRASSES do more towards conserving soils than any other crop because they tend to bind the soil and remove very little fertility. Free Bulletins on request.

CRESTED WHEATGRASS (*Agropyron cristatum*) is a long-lived perennial bunch grass, closely related botanically to Slender Wheatgrass and Western Wheatgrass. The stems are fine and leaves medium abundant. It has the ability to grow at low temperatures and starts growing earlier than most grasses; also it continues to grow later in the fall. It is well adapted to the northern Great Plains, and is suitable for hay and pasture.

CRESTED WHEAT GRASS, Fairway Strain. Has finer and more leaves than the regular strain and can be used under dry land conditions as well as where more moisture is available. It can be used to fine advantage in lawns, fairways, school yards, parks, farm lawns and makes a dense turf and fine appearing lawn. Sow one pound to 100 square feet.

INTERMEDIATE WHEATGRASS (*Agropyron intermedium*) is a perennial sod-forming grass introduced by USDA from the Soviet Union. It shows great promise for use as a pasture and forage species in the northern and central parts of the Great Plains and Pacific northwest. It is more drought-resistant than Smooth Brome and somewhat less hardy and drought-resistant than Crested Wheatgrass. The plants begin in early spring and reach a height of 3 to 4 feet. The abundant leafy foliage is relished by all classes of livestock.

WESTERN WHEAT GRASS (*Agropyron smithii*) or Bluestem, is a long-lived perennial widely adapted. Tolerant of drought and a certain amount of alkali. It grows rather slowly, requiring two to three years from time of planting for seeds to mature. Western Wheat Grass produces excellent forage for grazing and hay. It is palatable.

TALL SLENDER WHEATGRASS (*Agropyron tenerum*) is also called Western Ryegrass and McIver's Ryegrass. It grows in tall, erect bunches which sometimes cover a space one foot in diameter. It is perennial and very resistant to drought and cold. Has ability to grow in alkali land and is very palatable and nutritious to cattle and horses. It is well adapted for planting in Colorado, Wyoming, Montana, Nebraska, the Dakotas, and Idaho.

BLUE GRAMA GRASS from the plains and prairies is undoubtedly one of the most valuable forage grasses of the Great Plains and Southwest. Herbage is eaten closely by all classes of livestock either when green, when made into hay or when cured on the ground. Its chief advantages are its high palatability and high nutrient qualities, both when dry and green. Will stand extreme drought. Thrives at altitudes between 4,000 and 8,500 feet.

BUFFALO GRASS (*Buchloe dactyloides*) is a native grass of the plains and is a low-growing perennial that spreads by surface runners. It withstands trampling, severe usage and grazing better than any other native short grass. Seed has been treated to hasten germination.

BROME GRASS (*Bromus inermis*) is also known as Hungarian brome, smooth brome, awnless brome, Russian brome, and Austrian brome. It is a sod former. Roots penetrate 5 to 6 feet into the soil. This makes it possible for Brome Grass to withstand drought conditions, close grazing, and trampling to a remarkable extent. It resists severe winters and is tolerant of considerable alkali, enduring up to 1 per cent white alkali. It is usually sown in the spring on well prepared land at the rate of 10 to 20 pounds of seed per acre. The yield of hay the first year is small, good the second, and best the third.

LINCOLN BROME; ACHENBACH BROME. Kansas and Nebraska crop improvement associations are certifying superior strains of Brome Grass adapted to the warmer areas of the country. Nebraska certifies its strain as Lincoln. Uncertified seed moves into trade channels as Southern, Nebraska or Kansas Brome.

MOUNTAIN BROME GRASS (*Bromus Carinatus*) is a tall, hearty, perennial, bunch grass, one to three feet tall, its blades often reaching one foot in length. It is quite drought resistant and reproduces from seed and is highly palatable and nutritious. It is adapted to elevations 5,000 to 10,000 feet.

BROMAR is a selection of Mountain Brome grass of a later maturing type and seems to be an improvement over the old strain. It is particularly fitted for seedings with Sweet Clover for late plowing or longer season pasturing.



BROME GRASS

PRICES

Prices on grasses will be issued on Farmers and Ranchers Price List.

**SOW
GOOD
SEED**

Lawn Grass Seeds

**HAVE
A GOOD
LAWN**

Gold Seal Lawn Bulletin Mailed on Request.

Scatter some seed over the old lawn every year, either in the spring or fall. A fertilizer spreader will scatter the seed evenly as well as the fertilizer. A handy yard tool. See page 97.

GOLD SEAL LAWN GRASS MIXTURE

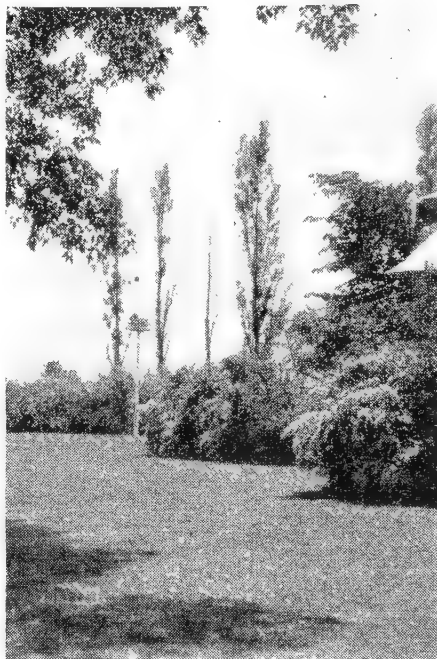
is an efficient mixture of pure and clean seeds. It contains only high grade grasses suitable for the purpose of making a beautiful, durable and lasting lawn. It germinates quickly, roots deeply, withstands extreme heat and severe cold. Makes a beautiful, rich green lawn.

KENTUCKY BLUE GRASS (*Poa pratensis*) is the most desirable grass for a beautiful lawn. The leaves are narrow and deep green in color. It forms a close turf, is slightly creeping and quite hardy. It is recommended alone or in mixtures for lawn purposes.

DOMESTIC RYE GRASS is a quick growing annual, which does not have root-stalks nor stolons and does not form a compact sod. It affords a quick covering and is helpful as a nurse crop to other grasses.

PERENNIAL RYE GRASS (*Lolium perenne*) is a tufted, short-lived perennial. It does not form root-stalks or stolons and does not form a compact sod. It grows rapidly, making a quick covering and is used in lawn grass mixtures with Kentucky Blue Grass and Red Top.

WHITE DUTCH CLOVER (*Trifolium repens*). This is a small, close growing, dwarf clover, used extensively in making lawns. It is a rapid grower of spreading habits and can be cut very close to the ground without injury to the plant. It starts regrowing at once after cutting. White Dutch Clover helps the grasses by adding nitrogen to the soil.



BENT GRASSES

Bent grasses are used extensively for golf greens on account of the heavy mass of thick-leaved grass which they produce. This growth materially aids in choking out weeds. They do not always give the same degree of satisfaction on

lawns because private lawns do not always get sufficient and proper care.

ASTORIA BENT (*Agrostis stolonifera compacta*) has very pleasing green color with blades of fine texture. It produces stolons or creeping runners lightly above and heavily below the surface. It is produced on dry hill lands and not on moist lowlands and is therefore capable of withstanding dry conditions. It is a good grass for lawns as well as golf greens.

HIGHLAND BENT is a type of Colonial Creeping Bent grown in the uplands of Oregon. It is very hardy, a vigorous grower and will withstand more dry weather than other strains of Bent Grasses.

SEASIDE BENT (*Agrostis maritima*) is produced along the sea coast in Oregon in the low swampy lands. Is known as Coos County Bent, Cocos Bent, and Coos Bent. Is fine leaved, bright green in color, and creeps both below and above the ground. It requires frequent cutting.

CHEWINGS FESCUE is New Zealand Fescue. It has a very fine blade and is a beautiful and lasting green. It is used for fairways on sandy soils and for lawns in shady places.

BERMUDA GRASS (*Cynodon dactylon*) is a southern grass with dwarf habits, long creeping stems rooting at the joints that cover the ground with a matting of fine turf. Not suited for northern latitudes.

PRICES SUBJECT TO CHANGE

	Lb.	3 lbs.	5 lbs.	25 lbs.
Gold Seal Lawn Grass.....	\$1.00	\$2.95	\$4.90	\$22.50
Kentucky Blue Grass.....	1.05	3.10	5.15	23.75
Domestic Rye Grass.....	.30	.85	1.25	5.50
Perennial Rye Grass.....	.40	1.15	1.75	7.50
Red Top Grass.....	.70	1.95	3.00	14.00
Poa Trivialis	1.00	2.75	4.25	21.00
Meadow Fescue .....	.50	1.25	2.25	11.75
Astoria Bent Grass.....	1.65	4.90	8.15	.....
Highland Bent Grass.....	1.75	5.20	8.65	.....
Seaside Bent Grass.....	1.75	5.20	8.65	.....
Chewing Fescue	1.05	3.10	5.15	.....
Creeping Red Fescue.....	1.05	3.10	5.15	.....
Bermuda Grass	(4 oz. 25c) .65	1.80	2.75	.....
White Dutch Clover.....	(4 oz. 40c; 8 oz. 80c) 1.50	4.25	7.00	30.00

Seed Disinfectants and Fungicides



CERESAN M—For dry or slurry application to control certain smuts and some other seed-borne diseases of wheat, oats, barley, rye, sorghum, millet and flax. Usually reduces seed decay and seedling damping-off of peas and sugar beets.

Prices: (14 oz. \$1.15) (3 lb. \$3.25) (40 lb. \$32.20) (100 lb. \$75.90)

CERESAN—The well known treatment for wheat, oats, barley, rye, sorghums, millets and flax. Ceresan M. also recommended for the same uses.

Prices: (4 oz. 45c) (1 lb. \$1.15) (4 lb. \$3.90) (40 lb. \$32.20)



ARASAN—Replaces Semesan Jr. for corn, sorghums, peanuts, rice, vegetables and legumes. Dry application only. Two-way action. As a disinfectant, generally destroys many surface seed-borne organisms. As a protectant protects against seed-borne organisms.

Prices: (¾ oz. 25c) (8 oz. \$1.00) (4 lb. \$6.00) (40 lb. \$30.00)

SEMESAN—For vegetables, flower seeds and bulbs. Generally preserves seeds against rotting in cold, wet soils; controls damping off or seedling blight. Helps promote sturdier growth, larger yields.

Prices: (½ oz. 20c) (2 oz. 60c) (12 oz. \$2.40) (4 lb. can \$11.00)



SEMESAN BEL—Semesan Bel for treatment of both Irish and Sweet Potatoes. Treat Irish to reduce seed rotting, surface seed borne Rhizoctonia and scab.

Prices: (2 oz. pkg. 50c) (1 lb. can \$2.00) (4 lb. can \$6.33)



TERSAN 75—(75% Thiuram) more concentrated, less inert than Tersan. Is exceptionally safe and effective non-mercurial for prevention or control of large Brown Patch, Dollar Spot and Snow Mold on golf courses, tennis courts, lawns and fine turfs.

Price: (3 lb. bag \$6.75) (Tersan, 8 oz. can \$1.00)

COPPER CARBONATE is very efficient for the control of bunt or stinking smut of wheat. Two or 3 ounces of 50% plus Copper Carbonate per bushel of grain is sufficient. The value of Copper Carbonate is determined by its metallic copper content.

Prices: (5 lb. bag \$2.35) (10—5 lb. bags \$21.00)

CORONA COPPERCARB is used for killing smut spores in wheat. It contains, from 18 to 20 per cent Copper Carbonate and is specially prepared to give good coverage. The label gives full instructions, further information will be furnished on request. Having a lower metallic copper content more Coppercarb is required per bushel than is required of the 50% plus Copper Carbonate, but the price is lower. 6 to 8 ounces per bushel is recommended.

Prices: (5 lb. bag. \$1.60) (10—5 lb. bags \$12.50)

SPERGON is a fine yellow powder that possesses the property of good adherent to seeds. It kills harmful fungi in the soil thereby allowing seed to germinate naturally and produce healthy and vigorous seedlings, resulting in better plants and greater yields. It is safe to use.

Prices: (1 oz. 25c) (5 oz. \$1.00) (1 lb. \$2.25) (10 lb. \$20.00)

FORMALDEHYDE. Old Reliable and efficient seed disinfectant.

Prices: (1 pt. 50c) (Case, 50, 1 lb. cans \$21.00)

BLUE VITRIOL or SULPHATE OF COPPER is a preventive of smut in grain. It is very effective and probably the cheapest fungicide in use today. One pound of Blue Vitriol dissolved in 20 gallons of water is sufficient to treat 30 bushels of wheat or barley for smut. Five pounds of Blue Vitriol and 5 pounds of lime added to 60 gallons of water is effective for celery spray.

Prices: (1 lb. 25c) (5 lbs. \$1.05) (10 lbs. \$2.00) (50 lbs. \$8.95)

BORDEAUX MIXTURE. Repels leafhopper and flea beetle, also prevents blight. A good fungicide for vegetables, flowers and ornamentals.

Prices: (1 lb. carton 50c) (4 lb. bag \$1.35)

YELLOW CUPROCIDE (copper oxychloride) Cuprok has a metallic copper equivalent of 80%. Excellent for use in agricultural sprays and dusts and as a seed treatment. Use on Potatoes, Tomatoes, Celery, Cucurbits, other vegetables, ornamentals as a fungicide.

Price: (3 lb. bag \$1.80)

PARZATE FUNGICIDE A—(65% Zinc Ethylenbis dithiocarbamate) a new, more effective and safer plant disease control for vegetables and ornamentals. Stop early and late blights, rust and leaf spots. Use 1½ to 2 lbs. per 100 gallons as spray; 10 to 15 lbs. as dust.

Price: (3 lb. bag \$3.00)

Prices listed are those in effect at time of printing and are subject to whatever revisions may be caused by advancing costs and government regulations.

INSECTICIDES



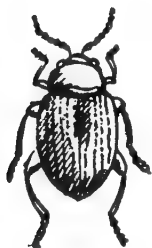
ROSE CHAFER

1, 3, 11



CODLING MOTH

1, 3



POTATO FLEA BEETLE

1, 2, 3, 19



TOMATO WORM

1, 2



MEXICAN BEAN BEETLE

3, 4, 5, 6



JAPANESE BEETLE

1, 3, 6

Above are illustrations of important leaf eating insects. The numbers beneath them indicate the products recommended for their control by the manufacturers of such products.

(1) **ARSENATE OF LEAD** is an effective insecticide for leaf eating insects on tender foliage.

Prices: (1 lb. carton 70c) (1 lb. bag 65c) (4 lb. bag \$1.70)

(2) **PARIS GREEN** is a strong effective poison for leaf-eating insects. Is not recommended on tender foliage.

Prices: (1/4 lb. carton 25c) (1 lb. carton 75c) (5 lb. carton \$3.35)

(7) **NEW EVERGREEN SPRAY** is a liquid spray. This provides an easy way to kill garden insects and ants. Its deadly pyrethrum content kills a wide range of insects that eat leaves, destroy blossoms, or suck sap. This is non-poisonous to man or animal and will not injure the tenderest blossoms. Simply mix New Evergreen Spray with water and it is ready for use. It is mailable.

Prices: (1 oz. 35c) (6 oz. \$1.15) (Pints \$2.45) (Quart \$4.10) (Gallon \$12.60)

(9) **BLACK LEAF 40**. Nicotine Sulphate is a contact spray to kill green and woolly aphis, plant lice, red spiders, cabbage aphis, onion thrips. Is very effective for use on Sweet Peas and Roses. It is also very efficient for poultry lice control at any season of the year. Is easily applied and quite economical.

Prices: (1 oz. 36c) (5 oz. \$1.05) (1 lb. \$2.42) (2 lb. \$4.15) (5 lb. \$7.40) (10 lb. \$12.65) (50 lb. \$53.90)

(11) **TRI-GEN SPRAY** gives complete protection against all plant insects and diseases, stimulates growth. Tri-ogen is a favorite product for application on roses. Put up in three kits for control of chewing insects, sucking insects and mildew.

Prices: (E Kit makes 8 qts. \$1.35) (A Kit makes 16 qts. \$2.25) (B Kit makes 64 qts. \$6.00)

VAPATONE XX SPRAY. A wonder insecticide for garden use. Kills aphis, red spider, mites, thrips, caterpillars.

Prices: (4 oz. \$1.00) (16 oz. \$2.75) (95/100 gal. \$11.90)

(4) **CUBOR (Rotenone Coated) DUST** contains soluble and available forms of rotenone-bearing resins which materially raise the killing power by penetrating and dissolving in the natural external and internal moisture of the insect. Impregnated, not merely mixed, therefore uniform and effective and leaves no arsenical residue. Recommended for leaf-eating and sap-sucking insects. Cubor "100" contains 1% rotenone or cube root, Cubor "75" contains 3/4 of 1% rotenone or cube root. Cubor Sulphur Dust contains 3/4% rotenone and sulphur.

Prices: Cubor "75" (4 lb. bag 95c) (50 lb. bag \$9.50); Cubor "100" (50 lb. bag \$11.50); Cubor Sulphur Dust (1 lb. sifter 50c) (4 lb. bag \$1.00) (50 lb. bag \$10.05)

(5) **ACME ROTENONE GARDEN GUARD**. The killing ingredient is Rotenone. Acts as contact and stomach poison—non-injurious to humans and warm-blooded animals. Can be dusted or sprayed.

Prices: (1 lb. sifter 50c) (1 lb. pump gun 65c) (4 lb. bag \$1.00)

(6) **P C H 20 DUST**. An amazing new insecticide, non-poisonous to humans or warm blooded creatures, containing piperonyl cyclohexanone. For control of Mexican Bean Beetle, Leaf Hopper and Leaf Beetle on Beans, Cucumber Beetle, Alfalfa Looper, Cabbage Looper, Diamond Back Moth and Imported Cabbage Worm. Also for Garden Webworm, Colorado Potato Beetle, Potato Flea Beetle and Leafhopper. Also effective on certain species of Aphids, and many other insects.

Prices: (4 lb. bag \$1.00) (50 lb. bag \$10.25)

PARATHION. 15% Spray Powder of high toxicity and must be handled with great care. Acts as a contact and stomach insecticide. Controls aphis, mites, mealy bugs.

Prices: (2 lb. can \$2.00) (50 lb. drum \$40.00)

(17) **VOLCK OIL SPRAY**. A highly refined insecticide and spray carrier for use against mealybugs, scale insects, red spiders and white flies on plants.

Prices: (4 oz. 35c) (16 oz. 70c) (1 gal. \$2.85)

SWIFT'S ENDOPEST APPLICATOR. 3-way garden defense contains Rotenone, Zinc and Sulphur.

Prices: (4 oz. sifter top 25c) (10 oz. applicator 79c)

INSECTICIDES



WHITE FLIES

4, 5, 9, 7, 8, 19



TARNISH PLANT BUG

11



RED SPIDER

9, 13



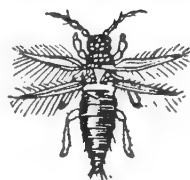
MEALY BUGS

16, 12



LEAF HOPPERS

6, 9, 19



THRIP

11, 9, 18, 19

SULPHUR PRODUCTS

(12) **DRY LIME-SULPHUR** is used for dormant spraying against scale.

Prices: (1 lb. cans 60c) (5 lb. cans \$2.50) (12½ lb. bags \$2.90)

(13) **ACME WETTABLE DUSTING SULPHUR.** An improved dusting sulphur for home use which can be used as liquid spray. Controls mildew, leaf spot, black spot and rust on vegetables, flowers and ornamentals.

Prices: (2 lb. cartons 52c)

(13) **WETTABLE SULPHUR.** Very finely screened Flour of Sulphur for spraying.

Prices: (4 lb. bag 55c) (50 lb. bag \$3.00)

(15) **SWAN BRAND SUPERFINE VENTILATED SULPHUR.** 97.5% pure, 93-95% passing 325 mesh, contains 2½% filler-non-lumping, free-flowing dusts. Use any type hand or power duster.

Price: (50 lb. bag \$2.15)

(14) **TRIANGLE BRAND COMMERCIAL FLOUR SULPHUR.** 99.5% pure. Recommended as a soil corrective on alkali soils, sealing seed potatoes. It is a good fertilizer. Not recommended for dusting.

Price: (50 lb. bag \$1.65)

CHLORDANE

Chlordane formulations have been fully tested and proven a crop-safe insecticide even to such delicate crops as squash and melons. Chlordane is a superior insect killer for truck gardens, household use and control of livestock parasites. Non-toxic to man or animal when properly applied. The killing effect lasts for weeks.

COLORADO 44 EMULSIFIABLE Concentrate (4 lbs. chlordane per gallon).

Prices: (4 oz. 75c) (8 oz. \$1.25) (Pint \$1.95) (Quart \$3.25) (gal. \$8.40)

COLORADO 44, 5% Chlordane dust.

Prices: (Garden Duster 89c) (5 lb. \$1.95) (50 lb. \$4.50)

ACME 6% Chlordane Dust controls insects by contact, thru eating and by inhalation of vapors.

Prices: (1 lb. 55c) (4 lb. \$1.50)

COLORADO 44 KILZIT—2% chlordane in a refined oil base—fortified with quick knock-down. Controls roaches, bedbugs, mosquitoes, flies, fleas, ants and spiders.

Prices: (Pints 59c) (Quarts \$1.09) (Gallon \$3.25)

Prices listed are those in effect at time of printing and are subject to whatever revisions may be caused by advancing costs and government regulations.

DDT PRODUCTS

DDT formulations provide an efficient and economical method of control of numerous insects. The action is quick and permanent. They have a lasting residual value.

ACME DURADUST NO. 50—50% Wettable DDT in micronized form. For crops, 1 lb. to 50 gallons. For barns, 1 lb. to 2½ gallons. For livestock, 1 lb. to 2½ gallons.

Prices: (1 lb. 85c) (4 lb. \$2.20) (50 lb. \$25.00)

CHIPMAN DDT 50% SPRAY POWDER. Contains 50% DDT. Makes water suspension spray; also a base for DDT dust. Kills Colorado potato beetle, leaf hopper, onion thrip, certain insects on forest and shade trees.

Prices: (1 lb. 65c) (4 lb. \$1.80) (50 lb. \$20.35)

KNOX-OUT INSECT POWDER. Contains 10% DDT. For residual control in limited areas and in out of the way places where water or oil is not desired. A good powder for control of cockroaches and other insects. Not used on vegetables.

Price: (8 oz. package 50c)

CHIPMAN 10% DDT DUST is finely ground in inert carrier. Convenient form for application. Controls same insects as liquid application.

Prices: (4 lb. 75c) (50 lb. \$8.20)

BLACK LEAF AEROSOL INSECT KILLER. This 12 oz. bomb contains Pyrenone. Kills flies, mosquitoes, ants, roaches, bedbugs and similar household pests. Harmless to humans and pets when used as directed.

Price: \$1.45

DuPONT 50% TECHNICAL METHOXCHLOR (Wettable Powder)—Can be used right up to harvest time because of its low order of toxicity to humans. This marvelous new insecticide kills bean beetle, potato beetle, flea beetle, Japanese beetle, cabbage worm and many others. Safe on tenderest plants.

Price: (8 oz. canister 75c)

FERMATE (Ferris dimethyldithrocarbomate) is an especially effective control for black spot and rust of roses. Also controls many other diseases of flowers, vegetables, fruits and berries. Use 1½ to 2 lbs. per 100 gals. as spray, 15% as dust.

Prices: (8 oz. 75c) (3 lb. \$3.00)

FREE BULLETINS
SENT ON
REQUEST

Pest Exterminators

PRICES ARE
NOT PREPAID
UNLESS SPECIFIED



CYANOGEN A-DUST, also known as Cyanogas Calcium Cyanide, is a slate-gray material that gives off hydrocyanic gas upon exposure to the air. This gas is deadly to the rodent and insect pests and kills them almost immediately. The residue is harmless. The label gives full instructions for use, and further literature will be furnished on request. Also available in granular form.

Prices: (1 lb. can \$1.25) (5 lb. can \$3.75) (25 lb. can \$12.50) (100 lb. drum \$30.00)

CYANOGEN G-FUMIGANT for fumigating greenhouses, bulbs in storage, mushroom houses, flour mills, warehouses, and for grain fumigation. Two pounds to each 1,000 cubic feet of space for warehouse fumigation.

Prices: (5 lb. can \$3.75) (25 lb. can \$12.50) (100 lb. drum \$30.00).

CYANOGEN FOOT PUMP DUSTER for pumping Cyanogas A-Dust into rat burrows, mole runways, and for other burrowing pests. Will last indefinitely if not abused.

Price: (Each \$11.25)

SNAROL CUT WORM BAIT—It kills snails, slugs, cut worms, sow bugs, ear wigs. Non-injurious to vegetation.

Prices: (1 lb. 35c) (2½ lbs. 75c) (6 lbs. \$1.50) (50 lbs. \$10.00).

DOG REPELLENTS

DOGZOFF, a repellent that discourages dogs. Causes them to avoid flowers, lawns, trees, shrubs, fruit, property and frees lawns and gardens of unsightly dog nuisances. Harmless to dogs and humans.

Prices: (3 fluid oz. 75c) (16 oz. \$2.50)

SCRAM DOG REPELLENT. A powder in self-applier packages used to keep dogs away from shrubs, lawns, porches, etc.

Price: (8 oz. can 50c)

GOPHER and MOLE CONTROL

DEATH TO GOPHERS for the extermination of Gophers, Prairie Dogs, Squirrels, Ground Hogs and other rodents. Ready to use tablets make the baiting a very simple problem for golf and country clubs, parks and cemeteries, farms and ranches.

Prices: 30 tables 30c) (1½ oz. bottle 60c)

DEATH TO MOLES. Use a pointed stick to make several holes in runways and drop in tablets.

Prices: (30 tablets 30c) (70 tablets 60c)

ANT CONTROL

CYANOGEN ANT KILLER is not a bait. It is different. Simply enlarge entrances of nests with long shank screw driver or pointed stick; adjust spout on can and allow a small amount of Cyanogas to flow into the enlarged hole. This immediately destroys the queen and worker ants.

Price: (4 oz. spouted can 50c)

TERRO ANT KILLER will rid your place of ants in 24 hours. It is suitable for use in the kitchen, around the ice box, and pantry. In stores, candy cases, and ice cream cabinets. In bakeries, confectioneries, around root beer stands.

Prices: (1¼ oz. bottle 25c) (3 oz. bottle 50c)

ANTROL kills ants in the nests. Is a safe, sure, permanent, and scientific method. It is easy to use, economical. Safe around children and pets. Controls sweet and grease eating ants.

Prices: (4 ready filled feeders 39c)

MICE AND RAT CONTROL

MOUSE SEED is a scientifically prepared mouse exterminator. It is a tiny imported seed scientifically treated in such a way that practically all the chemical is absorbed by the kernel. The mice gnaw the seed to reach the kernel, leaving the hull. Then they go outside to die.

Prices: (1¼ oz. box 25c) (1 lb. can \$1.50)

COMMON SENSE RAT EXTERMINATOR is easy to apply; economical; very little required. Rats eat it in preference to food. It leaves no stain and dries up the carcass, leaving only the pelt.

Price: (2 oz. tube 30c)

RAT LUNCHES. A scientifically prepared rat exterminator that may be used anywhere. Wrapped in moisture proof packages in assorted colors. Packed in cellophane bags.

Prices: (15 package 30c) (35 package 60c)

BLACK LEAF WARFARIN RAT KILLER. A highly effective, scientifically formulated concentrated chemical compound for the control of rats, mice and certain other destructive rodents. Baits are tasteless and odorless and do not develop bait shyness. Full directions on each package.

Prices: (¼ lb. \$1.75) (½ lb. \$3.00)

TAT-ANTU (Formula 83) (alphanaphthylthiourea). This new rodenticide is tasteless to rats yet so powerful that one lick kills. It has been formulated to permit three simple methods of control—feeding, drinking and tracking.

Tat-Antu—Feeding and Drinking Bait (Size No. 1, each 35c) (Size No. 2, each \$1.00).

Tat-Antu—Feeding, Drinking and Tracking Bait (Size No. 3 Shaker Top Can, each \$1.00).

Nitragin for legume seeds Page 95.

Fertilizers, Plant Foods Page 94.

WEED KILLERS

2,4-D PRODUCTS

WEEDONE was the first 2,4-D formulation offered commercially. Now available in different formulations and strengths.



WEEDONE CONCENTRATE 48 (Ethyl ester formulation). 2,4-D acid equivalent 3 lbs. per gallon. **Prices:** (1 gal. \$5.25) (5 gal. \$25.00) (30 gal. \$142.20)

WEEDAR 64 (Alkanolamine formulation). 2,4-D acid equivalent 4 lbs. per gallon. **Prices:** (1 gal. \$5.85) (5 gal. \$28.00) (30 gal. \$148.50)

WEEDONE BRUSH KILLER 32. Low volatility butoxy ethanol ester formulation). 2,4-D acid equivalent 1-1/3 lbs., 2,4,5-T acid equivalent 3/4 lb. per gallon. For hard to kill plants. **Prices:** (1 qt. \$4.00) (1 gal. \$8.75) (5 gal. \$41.75)

ACP GRASS KILLER (TCA 90%) a new grass killer for spot and general use in control of certain noxious grasses such as Quack, Bermuda, Johnson in crop land, pastures, irrigation ditches, roadsides, etc. **Prices:** (10 lbs. per lb. 54c) (50 lbs. per lb. 47c)

WEEDICIDE is a product of Thompson Laboratories which developed the first Amine Solution of 2,4-D.

WEEDICIDE CONCENTRATE 60% contains 4 lbs. 2,4-D acid equivalent per gallon in the form of Diethanolamine Salt of 2,4-D.

Prices: (gal. \$4.86) (5 gal. \$23.10) (30 gal. \$131.70)

WEEDICIDE 40% (Butyl Ester) contains 2.64 lbs. 2,4-D acid per gallon.

Prices: (gal. \$4.65) (5 gal. \$22.10) (30 gal. \$125.70)

2,4-D FORMULATIONS for control of weeds in lawns

NEW IMPROVED WEEDONE contains 13% Butoxyethyl Acetate of 2,4-D and 2,4,5-T, the two most effective chemicals for killing lawn weeds. Non-poisonous to animals or humans. Does not give off vapors.

Prices: (8 oz. \$1.00) (qt. \$2.75) (gal. \$6.95)

WEEDICIDE 16 contains 16 ounces per gallon 2,4-D Acid (Amine Salt). Well suited for home and small estate use. Has a wide purchaser acceptance.

Prices: (2 oz. 25c) (8 oz. 75c) (Quart \$1.75)

WEED-NO-MORE 14—A 2,4-D Butyl Ester Weed Killer. The ester formulation is recognized as fast acting and effective.

Prices: (8 oz. \$1.00) (Quart \$2.98) (Applicator 39c)

Prices listed are those in effect at time of printing and are subject to whatever revisions may be caused by advancing costs and government regulations.

SWIFT'S ENDOWEED kills most annual weeds with one application. Best results obtained when applied on warm days when weeds are growing actively and a few days after mowing. Use two tablespoonfuls to one gallon of water.

Prices: (Packet 25c) (1/2 pint 98c) (quart \$2.69) (Side Spray Applicator 29c)

WEEDUST is a 2,4-D ethyl ester weed killer in dry, powder form. An easy way to kill a few scattered weeds. Just shake directly out of can for each dandelion or plantain.

Price: (12 oz. can 75c).

NON-SELECTIVE KILLERS

ATLACIDE is a proprietary compound patented by the Chipman Chemical Company. It contains Sodium Chlorate and other salts compounded in a manner to reduce the flammability of Sodium Chlorate. In tests over a three year period the average percentage of kill from the two chemicals was practically identical. May be applied as a spray or in original powder form.

Price: (100-lb. drum \$12.50)

DuPONT AMMATE WEED KILLER—Sure death for poison ivy, poison oak, poison sumac, deep-rooted perennial weeds, brush and very effective in weed control on driveways and along walks. Do not use on lawns or around valuable plants.

(2 lb. bottle \$1.10) (6 lb. bottle \$3.00)

CRAB GRASS CONTROL

WEEDONE CRAB GRASS

KILLER is a new non-poisonous killing aid for the control of Crab Grass and mouse-ear chickweed in lawns. The active ingredient is potassium cyanate and the formula is often referred to as PC. One application will kill the above weeds, under proper conditions, without killing clover, bluegrass, fescue or other deep-rooted perennial grasses. It is easy to use.

Prices: (5 oz. can treatment for 500 sq. feet, \$1.00) (20 oz. can \$3.00)



ZOTOX CRAB GRASS KILLER is recommended for use only in the late summer and fall (after August 1st) when crab grass is in seed forming stage. The turf grasses will be temporarily discolored. Complete directions on each bottle.

Prices not prepaid: (8-oz. bottle \$1.00) (16-oz. bottle \$1.50) (32-oz. bottle \$2.50) (5 lbs. \$5.40).

SULPHATE OF IRON—COPPERAS—is a powder that is useful in helping to control dandelion. Use 2 pounds to 1 gallon of water.

Prices: (lb. 10c) (3 lbs. 25c) (10 lbs. 60c) (50 lbs. \$2.50) (100 lbs. \$4.25)

**PLANTS
NEED FOOD**

FERTILIZERS

**INCREASE
YIELDS**

MIXED OR COMPLETE FERTILIZERS



SOILTONE fertilizer is a combination of chemical ammonia nitrate and organic humus from sewage disposal containing twenty-four known minerals. While Soiltone shows only 6% available nitrogen it is assured that it will all be used by plant life because it is completely surrounded by organic humus which has an affinity for rainfall and moisture and prevents leaching by wind or water. Soiltone is the ideal combination of micro-organisms or bacteria which break down the organic material and minerals in the soil while drawing nitrogen from the air. Soiltone has humus of manure plus minerals which manure does not have. One ton of dehydrated Soiltone contains the humus value of many tons of barnyard manure.

Prices: (25 lb. \$1.60) (50 lb. \$2.50) (100 lb. \$4.25)

SACCO PLANT FOOD

is a fine commercial fertilizer; a combined soil rectifier and growth producer for use on lawns, gardens, flowers, trees, potted plants and vegetables. It is a well balanced preparation containing all the feeding elements essential to the perfect growth and development of all plants. This plant food gives quick results, is easy to apply, and very economical. Use 2 to 4 pounds per 100 square feet on lawns.

Prices: (5 lb. 50c) (10 lb. 90c) (25 lb. \$1.90) (50 lb. \$3.50) (100 lb. \$5.25)



PEP-GRO SHEEP MANURE.

heat treated to destroy weed seeds, fortified with chemicals, makes a scientific balanced fertilizer with an organic base. Pep-Gro Sheep Manure contains 4% Nitrogen, 6% available Phosphoric Acid and 2% Potash. Its main value is as a source of humus. Its biological value when worked into the soil is to stimulate bacterial action.

Price: (80 lb. bag \$3.50)

CAPITOL BRAND DEHYDRATED SHEEP MANURE.

Has been pulverized and dehydrated. Heat treatment destroys weed seeds. Makes a good humus and mulch. Contains 1.5% Nitrogen, 1% Ph. Acid, 2% Potash.

Price: 50 lb. bag \$1.40

VIGORO

COMPLETE PLANT FOOD

VIGORO is a specially prepared plant food for better lawns, flowers and gardens. It provides an economical, practical and effective way to secure fine results. It is clean, odorless, easy to apply. Can be sown by hand like grass seed or applied with a spreader. Complete directions for applying Vigoro for all plants are contained in every bag.

Prices: (1 lb. 15c) (5 lb. 50c) (10 lb. 90c) (25 lb. \$1.85) (50 lb. \$3.15) (100 lb. \$5.50)

HELLER-GRO an odorless and non-poisonous liquid fertilizer. In use since 1939 for growing flowers and vegetables in a commercial greenhouse. It will not burn either foliage or roots and may be sprayed on the plants. It is extremely easy and convenient to use.

Price: (2 oz. bottle 25c) (8 oz. bottle 70c) (16 oz. bottle \$1.00) (1 gal. bottle \$5.00)

TRIOPEN ROSE FOOD, a food for roses made from organic (long lasting) and inorganic (quickly available) materials; 5 units of nitrogen to give healthy foliage; 10 units phosphorus for healthy sturdy plants and roots; 5 units of potash for bigger and better flowers. Also contains the essential minor elements and in addition contains Hormones and Vitamin B1.

Price: (5 lb. bag \$1.00) (10 lb. bag \$1.60).

FERTILIZER ELEMENTS

AMMONIUM NITRATE or NITRATE OF AMMONIA

contains 33½% nitrogen that is readily available for the plant. Alkaline soils help make it more readily available. It increases productivity and the protein content of crops, encourages growth so that maturity is hastened. Side dressing of vegetable crops is recommended as the best method of application. It does not cake or set up in storage.

Prices: (5 lb. 50c) (10 lb. 70c) (50 lb. \$2.75)

SULPHATE OF AMMONIA is a valuable fertilizer for all plants in which a large leaf development or rapid growth is desired. It is a highly concentrated nitrogenous product, containing 25¼ per cent ammonia, 20¾ per cent nitrogen.

Prices: (5 lb. 45c) (10 lb. 65c) (50 lb. \$2.50)

SUPERPHOSPHATE is a water soluble combination of phosphoric acid and lime which is formed by the action of sulphuric acid on raw phosphate rock, one of the elements required in a balanced fertilizer.

Prices: (5 lb. 45c) (10 lb. 65c) (80 lb. \$3.75)

NITRATE OF SODA. Hastens crop maturity because its action is quick. Contains about 20 per cent nitrogen.

Prices: (5 lb. 50c) (10 lb. 70c) (50 lb. \$2.75)

BONE MEAL contains Phosphoric acid and some Nitrogen. A very satisfactory food for roses.

Prices: (5 lb. 75c) (10 lb. \$1.00) (50 lb. \$3.75)

Prices listed are those in effect at time of printing and are subject to whatever revisions may be caused by advancing costs and government regulations.

PLANT FOODS, STIMULANTS, Etc.

VIGORO TABLETS. A complete plant food specially made for potted plants and flower boxes. 4% Nitrogen; 12% Phosphate; 4% Potash. Price: (12 25-grain tablets for 15c).

FULTON'S PLANTABBS

will give an extra boost to everything that grows in the soil,

whether potted plant, flower, vegetable, or ornamental. The rich formula provides 11% Nitrogen (for stems and leaves), 15% Phosphoric Acid (for roots and blooms), 20% Potash (for form and color), plus Vitamin B₁.

Boxes at 10c, 25c, 50c, \$1.00 and \$3.50.



HYPONEX PLANT FOOD. Complete, balanced plant food. Dissolves readily and will not burn. Clean and odorless. Excellent for seedlings, cuttings and transplants. Use indoors or outdoors in soils, sand or water. 1 oz. makes 6 gals. Prices: (1-oz. pkt. 10c) (3-oz. can 25c) (7-oz. can 50c) (1-lb. can \$1.00).

ROOTONE. This is a root-forming stimulant when applied to cuttings, seeds, or bulbs. When seeds and bulbs are dusted with Rootone and planted, the germination is quicker and root growth is faster. Also applied to grass seeds. Prices: (1/4-oz. pkt. 25c) (2-oz. jar \$1.00) (lb. can \$5.00).

TRANSPLANTONE. Very useful when plants are moved or transplanted; helps grow new roots. Prices: (1/2-oz. pkt. 25c) (3-oz. can \$1.00) (lb. can \$4.00).

FLORALIFE prolongs the life and beauty of cut flowers, adding five to ten days more enjoyment. Price: (small packet 10c) (home size makes 30 qt. \$1.00) (100 qt. size \$3.00).

HORTICULTURAL PEAT MOSS

For lawns, gardens, cold frames, hot beds, potting, and general planting. It is a soil conditioner, a source of humus, a means of controlling moisture, a perfect mulch. One bale will cover 100 square feet about one inch deep. Very free from dirt and not ground to a powder or dust.

(Standard bale about 15x20 1/2 x 36 in. \$4.75) (1/2 bale \$2.75) (1/4 bale \$1.50) (1/8 bale \$1.00) (package 60c).

MOON SIGN BOOK

If you believe in moon planting get the Moon Sign Book. This book gives complete instructions in the use of planetary influence on planting and harvesting. It also gives the dates and best time to plant and harvest, for setting eggs, for breeding, fishing, for personal affairs. 256 pages of practical information, published annually since 1906.

Price 1951 edition \$1.10 postpaid in U. S. A.

Inoculate all Legume Seeds with

NITRAGIN

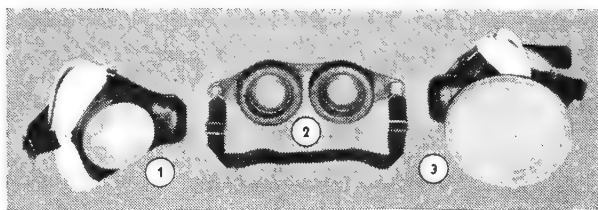
1898—FIFTY-THREE YEARS OF SERVICE—1951
When ordering, Always state name of seed

COMBINATION (AB)		SOYBEANS (S)	
Size	Retail	Size	Retail
1 bu. ea.	\$.50	2 bu. each.....	\$.35
2 bu. ea. ....	.90	5 bu. each.....	.55
ALFALFA (A)		25 bu. each.....	2.50
Swt., Bur, Hubam Clovers		(One can)	
1 bu. each		BEANS (D)	
CLOVERS (B)		Navy, Pinto, Wax,	
Red, Alsike, Crimson,		String, Kidney and	
White and Ladino.		Great Northern	
1 bu. each		1 bu. ea.	
LESPEDEZA (L)		.....
100 lb. size (Inoculates		.....
up to 100 lbs.) ..		.....
.....		PEANUTS,	
PEAS, (C)		COW PEAS (E)	
VETCHES (All Varieties)		2 bu. each.....	
100 lb. size (Inoculates		5 bu. each.....	
up to 100 lbs.) ea.		.....
.....		

GARDEN SIZE—Peas, Beans, Sweet Peas, Lupines, Lima Beans and Edible Soybeans

Enough for 8 lbs. seed — Retail Price 15c each

RESPIRATORS



Provide for economical protection where dust is a respiratory hazard in applying seed disinfectants, in threshing and around cleaning mills and in dusting crops.

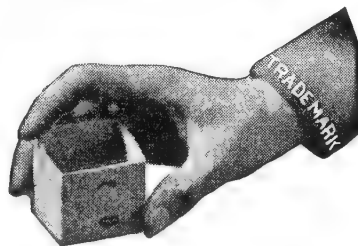
(1) No. 4 DUPOR. Each postpaid: \$1.65.

(3) No. 46 DUPOR. Each postpaid: \$2.50.

(2) COVERS GAS-TIGHT FOG-PROOF RUBBER GOGGLES. Postpaid: \$1.65 each.

TRANSPLANTING BANDS

Plants are started in these bands and set in the ground and they never know they have been moved. Transplant single plants into these bands and when the weather is settled set the plants in the garden without removing the band.



	Doz.	100	250
2-P, 2 in. by 2 in.....	\$0.20	\$0.85	\$1.75
4-P, 4 in. by 4 in.....	.30	1.25	2.50
3-B, 3 in. by 3 in. without bottom	.15	.75	1.50



B-K POWDER is a low-priced stabilized hypochlorite powder especially adapted for the requirements of larger users of hypochlorite, on account of its greater economy.

Prices: (small size bot. 9½ oz. 85c)
(large size bot. 1¼ lbs. \$1.70).

KNOX-OUT INSECT SPRAY WITH 5% DDT made by Penn. Salt Co. kills Flies, Ants, Roaches, Mosquitoes, Carpet Beetles, Silverfish, Moths and Bed Bugs. Use as a contact or residue spray according to directions.

Price: (pint 35c) (quart 65c) (gallon \$2.35).

POULTRY LITTER

Flaky peat moss from deposits. An efficient product for fowl and animal litter, with high water absorption. Very clean and free from dust.

Standard bale, about 36x20½x15 in. (\$4.75 not prepaid) (½ bale \$2.75).

MARLATE 50—Methoxychlor, the insecticidal ingredient of Marlata 50, is recommended for spraying both in buildings and on dairy animals by USDA. It is a safe residual insecticide on both dairy animals and buildings. It has high insecticidal efficiency and low toxicity to warm-blooded animals.

Prices: (8 oz. canister 75c) (4 lb. bag \$3.60)

DAIRY ASSOCIATION REMEDIES

KOW-KARE is a concentrated tonic, conditioner, and regulator to promote assimilation, aid low cost milk production, and build up vigor for calving. Prices: (medium size 1¼ lbs. 75c) (large size 2¾ lbs. \$1.50) (6 large cans \$8.00).

BAG BALM for teat and udder ills, and all farm healing. Price: (Big 10 oz. pkg. \$1.00).

BAG BALM DILATORS. For quick healing of spider, scabs, bruises, internal injuries, or for hard milkers. (25 sterilized packed in Bag Balm \$1.00).

HOME HELP FOR DAIRY COWS—A valuable book, free on request.

BIRD FOOD. Prices Not Prepaid

CANARY seed forms the basis for all bird seeds. (Lb. 25c) (2 lbs. 45c) (10 lbs. \$2.00).

LARGE IMPORTED RAPE or **DWARF ESSEX RAPE.** (Lb. 25c) (2 lbs. 45c) (10 lbs. \$2.25).

SMALL or **SWEET GERMAN RAPE.** (Lb. 35c) (2 lbs. 65c) (10 lbs. \$3.00).

MILLET SEED, large yellow, and small red. (Lb. 10c) (2 lbs. 15c) (10 lbs. 60c).

SUNFLOWER SEED, selected and re-cleaned for parrots. (Lb. 30c) (5 lbs. \$1.45).

GOLD SEAL MIXED BIRD SEED. Containing re-cleaned canary, rape, hemp, millet, in proper proportions. (Lb. 30c) (2 lbs. 55c) (10 lbs. \$2.50).

Prices listed are those in effect at time of printing and are subject to whatever revisions may be caused by advancing costs and government regulations.

GARDEN GLOVES

EEZY WEAR GARDEN GLOVES, all leather, soft, comfortable, durable, washable, dirtproof. Easy on the hands. Easy to wear.

Prices: (Nos. 6, 7, 8, \$1.35 pr.) (Nos. 9, 10, \$1.45 pr.)

GREEN THUMB GARDEN GLOVES. Style No. 100. New dirt-repellant, extra long-wearing gloves. They have a green thumb. The soft chamois-colored fabric is impregnated with vinyl that keeps out dirt and assures long wear.

Prices: (Small, medium, large 89c pair.)

SWAGGERETTES—Women's House and Garden Gloves. Made from tough, durable neoprene and plastic neox. Soft napped lining. Curved fingers. Natural position thumb. A very handy glove.

Price: (Small and medium sizes, \$1.10 pair).

GRAB-IT WORK GLOVES—Rough natural rubber on fabric. Firm grip. No slip. Flexible and liquid proof. No. 62 has safety cuff, coated palm and thumb. Canvas back with elastic.

Price: (Full men's size, \$1.25).

HOTKAPS—An Individual Hothouse for Every Plant!

HELP YOU GROW Earlier, Hardier, Vegetables, Flowers

Germaco HOTKAPS—strong little hot-houses—protect plants from destructive frost, storms, insects. University Agricultural Experiment Station tests prove HOTKAPS increase total yield 18 to 51 per cent, promote bigger fruits and vegetables, ripen plants three weeks earlier. Quick, easy to set, instructions on package. 100 million used by successful growers. Beat everyone with first vegetables, flowers.

Market Growers: University tests prove Germaco HOTKAPS nearly double your early marketable yield per acre, help you get highest out-of-season prices. Premium profits pay for them many times over. Crop failure is costly—HOTKAPS protection is cheap! Order today.

(25 Hotkaps with Setter 85c).

(1,000 for \$18.35) (5,000 lots \$18.20 per M) (10,000 lots, \$18.05 per M) (250, with Setter, \$5.90) (100 with Setter, \$3.15) (Steel Setter, \$1.95) (Fibreboard Setter, 20c). Postage extra. Write for Free Booklet.

TWIST-EMS

TWIST-EMS—8" handy tying tapes made of laminated durable paper on malleable copper wire. Just the thing for tying dahlias, roses and other flowers. Very handy. Home Garden Package of 100 for 25c; 50 for 15c.

UTILITY TWIST-EMS. Used as a bunching tie by produce shippers and market gardeners.

Prices per 1,000: (7" \$1.50) (8" \$1.71) (12" \$2.56) (16" \$3.42).

PLANET JR. TOOLS



GARDEN TRACTORS

BP-1	1½ H.P. 4.00x12 tires.....	\$178.00
B-12	Cultivator	35.95
HT	3 H.P. 5.50x16 tires.....	365.00

PLANET JR. TOOLS AND EQUIPMENT. The material and workmanship in Planet Jr. tools, parts and repairs have never been surpassed. Complete catalog and price list sent on request. Prices are f.o.b. Denver and subject to change.

Double Wheel Hoes

No. 13	with weed knives.....	\$14.95
No. 12	most popular.....	19.50

Single Wheel Hoes

No. 19	Garden Plow.....	8.50
No. 18	with weed knives.....	9.95
No. 17	most popular.....	12.95

Seeders

No. 4	and S. W. Cultivator.....	31.95
No. 4D,	plain seeder.....	25.50
No. 25,	and D. W. cultivator.....	36.95
No. 300A,	for muck soil.....	34.95
No. 7135X	Tractor Seeder, Unit.....	34.50

AEROIL FLAME SPRAYERS or WEED BURNERS.

An outfit of great service and utility, burns kerosene, distillate or stove oil with a flame temperature of 2000° Fahrenheit. Uses: burning weeds, brush, rubbish and trash, disinfecting poultry houses, kennels, etc. Heating water tanks and feed cookers, thawing pipes, melting ice and snow, killing grasshoppers, crickets, setting backfires for fire control. Made from heavy galvanized steel with seamless dependable pump.

Prices Not Prepaid

Aeroil No. 99 (Senior), 4-gal.....	\$22.00
Aeroil No. 99 (Giant), 5-gal.....	27.25

SEEDERS

CYCLONE SEED SOWER sows and distributes evenly seeds of clover, timothy, red top, alfalfa, oats, rye, wheat, millet, buckwheat, turnip. The label gives complete instructions. Weight, 5 pounds. **Not prepaid: (Each \$4.10).**

Prices listed are those in effect at time of printing and are subject to whatever revisions may be caused by advancing costs and government regulations.

NO. 308 CORN PLANTER has a flexible and adjustable iron drop. Very simple in construction and will work in any soil. Has an iron seed box and iron channel. The foot is made of polished steel. Weight, 7 pounds. **(Each \$4.20).**

GARDEX TOOLS

Are exclusive in design and construction and are made from quality material. Gardex Tools are guaranteed against defects in material and workmanship. Complete catalog on request.

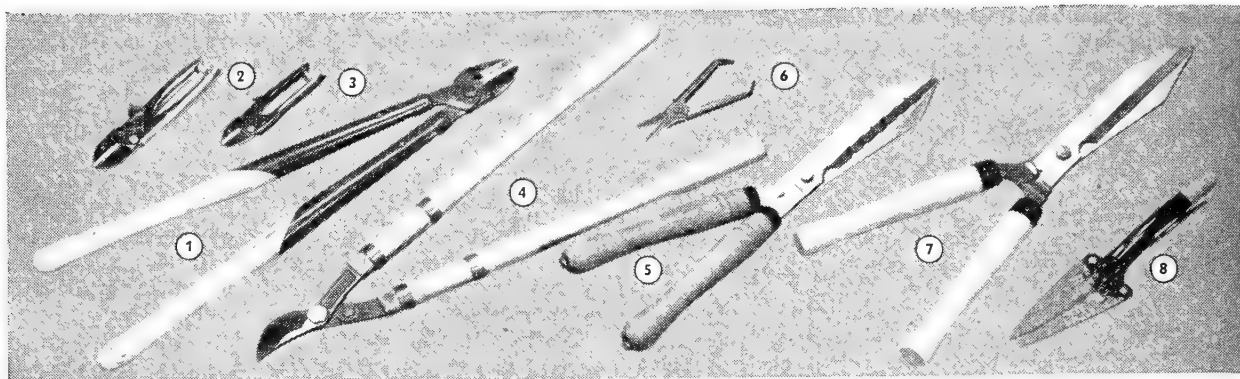
	Each
No. 1523 Gardex 3 prong cultivator with weeder	\$2.05
No. 1710 Gardex Aerator or Ladies Hoe. Handy tool for loosening soil in rock gardens and flower beds.....	1.40
No. 250 Gardex 16 tooth, Bow Rake.....	2.25
No. 251 Gardex Curved Tooth Rake, 14 tooth..	2.05
No. 906½ Gardex Garden Hoe, 6½" blade....	1.40
No. 9017 Beet Thinning Hoe.....	1.45
No. 9027 Nurserymen's Hoe.....	1.75
No. 9037 Beet Thinning Hoe.....	1.45
No. 9310 Gardex Hoe. Heart shaped blade with 3 prong cultivator opposite.....	1.75
No. 9320 Gardex Hoe. 3¾" blade with 3 prong cultivator opposite.....	1.75
No. 403 Gardex Lawn Sweep. 22 flat flexible steel teeth, well balanced.....	1.65
No. 740 Trowel .....	.80
No. 741 Transplanting Trowel .....	.80
No. 706 Asparagus Knife .....	.60
No. 415 Crab Grass Rake.....	1.95

GARDEX MIDGET TOOLS

No. 703 Midget Fork	\$.50
No. 713 Midget Cultivator.....	.50
No. 714 Midget Culti-Weeder.....	.60
No. 715 Midget Rake.....	.60
No. 717 Midget Steel Broom.....	.65
No. 721 Midget Culti-Spade.....	.60
No. 732 Midget Culti-Hoe.....	.70

DITCHMASTER ROTARY WATER GATE—An easily installed, positive shut-off, rotary Water Gate. The opening is semi-circular with simple locking device and is self cleaning. Made of heavy gauge galvanized steel or aluminum sheet securely riveted to an electrically welded frame. This Gate is more efficient and easier to handle than dam canvas.

Gate Size	Diameter Opening	Weight Pounds	Each
24"	20"	11	\$ 7.95
30"	27"	18	12.95
36"	33"	32	15.95



LONG HANDLED PRUNERS

NO. 45 SEYMOUR SMITH ROCKDALE PATTERN. 22" handles. Cuts 1 1/4" limbs. (Each \$3.25)

NO. 48 ROCKDALE PATTERN. Same as 45 but with 30" handles. (Each \$3.75)

(1) NO. 149 SEYMOUR SMITH SNAP-CUT PATTERN. Direct-cut blade-and-anvil cutting principle applied to a lopping shear. 20" handles. (Each \$5.25).

(4) CORONA HAWLEY LOPPING SHEARS NO. 26T. Has 26" handles and hollow ground blades that make cutting easy. Handles securely attached. Weight 2 lbs.

Price not prepaid: (Each \$6.45).

GRASS SHEARS

(8) No. 257 SEYMOUR SMITH EZY-CUT GRASS SHEAR. Easy non-tiring squeeze-grip action. A handsome highly efficient tool. (Each \$3.00)

NO. A57 SEYMOUR SMITH EZY-CUT SPECIAL GRASS SHEAR. A splendid value. (Each \$2.15)

NO. A1575 SEYMOUR SMITH STAND-UP GRASS SHEAR. Cutting action same as No. 157. Operator stands up. (Each \$4.20)

PRUNING SHEARS

(2) NO. 119 8" SNAP-CUT PRUNING SHEAR. Easily cuts 3/4" branches. (Each \$2.75).

(3) NO. 118 LADIES SIZE SNAP-CUT PRUNING SHEAR. Easily cuts 1/2" branches. (Each \$2.10).

NO. 151 9" HAND PRUNING SHEAR. Drop forged ground and polished cutting head. Volute spring. (Each \$1.79).

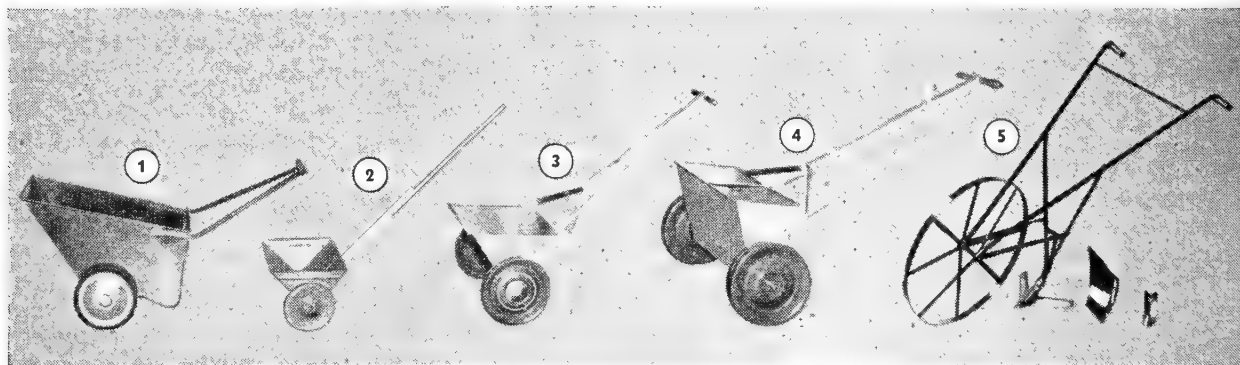
(6) CALIFORNIA UTILITY SHEAR NO. 19. 6 1/2 inches long, light and comfortable. It is handy for many uses on farm, in shop, garden or kitchen. Weight about 4 oz.

Price postpaid: (Each 39c).

HEDGE SHEARS

(7) A14-8 SEYMOUR SMITH EZY-CUT HEDGE SHEARS. 8" blade, high lift handles. (Each \$3.00).

(5) A54-9 LIGHTNING CLIPPER HEDGE SHEARS. New shaped blades 9" long, streamlined handles with extra long ferrules. High lift handles provide ample clearance above hedge. (Price each \$3.85).



(1) HANDICARTS. Replace awkward wheelbarrow. **No. 18S.** 3 cu. ft. capacity, weight 24 lbs. (\$11.95). **No. 20D.** 3 1/2 cu. ft. capacity, weight 35 lbs. (\$16.75).

(5) GOLD SEAL HI-WHEEL CULTIVATOR. All steel, sturdily built, equipped with 22" wheel, 2" cultivating tooth, a 10" sweep and a plow, weight 18 lbs. (\$5.25).

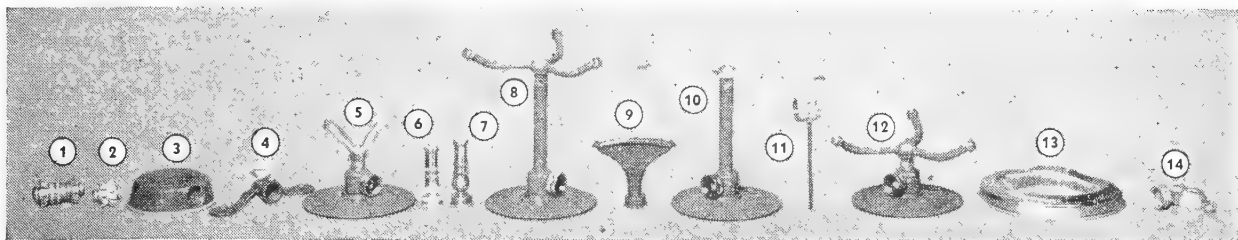
(2) MODEL BR SPREADER. 16" wide, 20 lb. capacity. Rubber tired wheels. (Each \$8.85).

(3) VIGORO JR. SPREADER. 16" wide, 40 lb. capacity. Rubber tired. (Each \$12.05).

(4) STANDARD SPREADER. 24" wide, 75 lb. capacity. Rubber tired. (\$33.95).

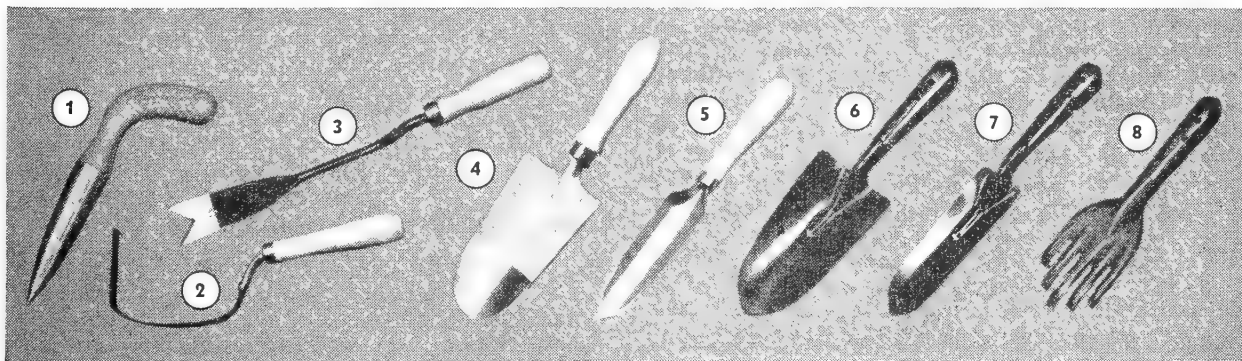
SPECIAL SPREADER. 36" wide, 105 lb. capacity. Rubber tired. (Each \$44.10).

Prices listed are those in effect at time of printing and are subject to whatever revisions may be caused by advancing costs and government regulations.



- (1) **PERFECT CLINCHING BRASS COUPLINGS.** Attach to hose same as Hose Menders. Complete couplings, male and female ends for $\frac{5}{8}$ and $\frac{3}{4}$ inch hose. (40c) (Female ends 27c) postpaid.
- (2) **PERFECT CLINCHING MENDERS, BRASS TUBE.** These are self fastening—no bands, bolts or wires are required. Fingers are non-cutting. For $\frac{5}{8}$ and $\frac{3}{4}$ in. hose. (Each 17c) (2 for 32c) postpaid.
- (3) **GARDEN-V-SPRINKLER.** All steel construction rust-proofed inside and out with durable paint. A wonderful spray through one large hole that will not clog. Base 5 inches wide, weight 1 lb. Each 80c.
- (4) **SQUARE SPRAY SPRINKLER.** Out of production. Use Cricket Sprinkler.
- (5) **BUNNY SPRINKLER.** A popular sprinkler that gives a far throwing even circular spray. Looks like bunny ears. (Each \$1.85)
- (6) **DIXIE NOZZLE.** High quality nozzle at a moderate price. Guaranteed leak proof and a perfect Spray. (Each \$1.00)
- (7) **PAT NOZZLE.** Light wrought brass, adjustable from straight streams to spray. (Each 85c)

- (8) **WHIRLING SQUARE SPRINKLER** on wheels with dial control is an improvement over old number. Sprinkles from 10 to 50 feet. No puddling. Withdrawn account scarcity of zinc.
 - (9) **FLARING ROSE SPRINKLER.** Makes an ideal soft spray for new planted grasses, seedlings, delicate foliage and flowers. (Each \$1.35)
 - (10) **WHIRLING FAIRY SPRINKLER.** A very simple, dependable rugged sprinkler. Throws a drenching spray. (Each \$4.25)
 - (11) **PARKWAY FAN SPRINKLER.** With 4" green enameled spike, zinc and copper alloy brass lined. Sprinkles to one side. (Each 45c).
 - (12) **POPPY SPRINKLER.** Head and 3 arms cast in one piece on wheels. (Each \$3.95)
 - (13) **FAMOUS NELSON CRESCENT SPRINKLER.** Throws a fine mist-like spray in a complete half circle. Can be moved without getting wet. Weight 1 lb. (Each \$1.75)
 - (14) **NO. 70 THOMPSON TWIN SPRINKLER.** Cast of zinc and copper alloy, brass lined. (Each 70c).
- CRICKET SPRINKLER.** Sprinkles a square area. For multiple sprinkling system or for individual use. (Each \$1.35) (4 for \$5.25).



- (1) **GARDEN DIBBLES** for setting plants.
No. 218 Regular Size. Polished point, wood handle. (\$1.25).
No. 219 Small Size. Wood handle. (1.00).
No. 220 Regular Size. Polished point, all iron. (\$1.15).
- (2) **IDEAL WEEDER.** A handy garden tool. (70c)
- (3) **ASPARAGUS KNIFE.** Hammer forged, well hardened and tempered. (60c).
- (4) **NO. 212 TROWEL.** Stamped in one piece, hal-
lowed to add strength. (45c).
- (5) **NO. 217 TRANSPLANTING TROWEL.** Narrow
blade and shank from one piece of heavy steel.
27c).

- (6) **NO. 80 GARDEN TROWEL.** Formed from a single
piece of steel. (22c).
 - (7) **NO. 81 TRANSPLANTING TROWEL.** A very
handy tool. (22c).
 - (8) **NO. 82 WEEDER OR CULTIVATOR.** Convenient
for close cultivation. (22c).
- STERLING METAL PICKET FENCE** protects Flow-
ers, Shrubs and Trees. It is flexible and can be
bent to any desired shape. It will not break.
Painted attractive durable white. Pickets
rounded at top. Sections 17" high, 30" long that
can be fastened with small bolts to obtain any
length. Weight 2 lbs. Price: Per section 59c.

Prices listed are those in effect at time of printing and are subject to whatever revisions may be caused by advancing costs and government regulations.

**SAVE
MATERIAL**

SPRAY PUMPS

**APPLY
EFFICIENTLY**

ATOMIZERS or HAND SPRAYERS. These low-priced sprayers are especially designed for the home and are a convenient type for use in the small garden for shrubbery or in the poultry house.



INTERMITTENT HAND SPRAYERS

Produce a fine
mist on the
down stroke

		Each
G24	Pilot 5 oz. Glass Jar	\$.32
T25	Wing 12 oz. Tin Tank	.43
T26	Raider 32 oz. Tin Tank	.55

CONTINUOUS ATOMIZER or HAND SPRAY GUNS.

Slow, easy pumping produces a continuous mist.

T32	Bomber 32 oz. Tin Tank	\$1.20
G33	Squadron 25 oz. Glass Tank	1.60
G34	Ace 3 qt. Tin Tank	2.15

COMPRESSED AIR SPRAYERS

With these handy and efficient pumps the operation of spraying becomes an anticipated event. Solution is put in the tank which is made airtight with a twist of the wrist. Air is then pumped in and spraying commences. The trigger quick spray lock gives instant control. All equipped with galvanized steel tank.



Pattern Number	Description	Capacity Gallons	Each
44GS	Bighead	4	\$13.28
G60	Uni-Spray	4	10.50
G30	Aerial	3 7/8	7.40
21G	Fun-L-Fill	3 1/2	9.45
24G	Budget	3 1/2	7.53
26G	Budget	2 1/2	6.95
G20	Jet	2 5/8	6.80
MBL	Mob Spra	3 1/2	15.20
	Champion Knapsack	4	31.00
Hayes	Han-D-Sprayer	1 qt.	3.54

PARAGON No. 1 WHEELBARROW SPRAYER.

Capacity 6 gallons; equipment 5 feet special 6-ply spray hose, 5 feet spray pipe, 1 brass mist spray nozzle, 1 brass straight spray nozzle, 1 steel spray nozzle for whitewash and cold water paint.

Price: (Each \$24.75)

PARAGON No. 3 WHEELBARROW SPRAYER.

Capacity 12 gallons; equipment 7 1/2 feet extension pipe, 10 feet 6-ply hose, 2 spraying nozzles. This machine is mounted on a strong steel frame with either one or two wheels.

Price: (Each \$35.95)

DOBBINS WHEELBARROW SPRAYER No. 3170.

12 gallon capacity, equipped with 6 foot 3/8" hose, 2' extension rod, nozzle and 16" steel wheel, weight 42 pounds.

Price: (Each \$26.40).

Prices listed are those in effect at time of printing and are subject to whatever revisions may be caused by advancing costs and government regulations.

CONVENIENT HOSE SPRAYERS

INSECTO GUN is the most compact, simple and easy to use sprayer available. Just put insecticide in the pint jar, attach to the garden hose, and the water pressure does all the work. Eliminates pumping and carrying a tank.

Prices:

Insecto Gard-N-Gun, 1/2 pint.....	\$2.45
Model 3 Insecto-Gun, 3 gal.....	5.95
Model 6 Insecto-Gun, 6 gal.....	7.95



ARNOLD GARDEN HOSE SPRAYER consists of a shut-off, a cartridge chamber and an extension spraying nozzle. The regular water pressure forces the solution out of the nozzle in a fine mist. Special soluble cartridges for insect and plant disease control fit the cartridge chamber. Water passes through the chamber, dissolves the cartridge providing correct control solution. A very easy, effective and economical means of applying fungicides, insecticides and fertilizer to plants, shrubs and lawns. Sprayer and attachments are finished in chrome.

Prices: Chrome Finish:

Arnold Special Combination.....	\$7.50
(Adjustable Sprayer with six assorted cartridges).	
Arnold, with Adjustable Nozzle.....	5.50
Arnold, with Stationary Nozzle.....	4.50
36" Straight Extension.....	1.75
Transparent Chamber and Coupling.....	2.00
Transparent Chamber, Metal Ends.....	1.50
Coupling Only .....	.75

The following cartridges for the Arnold Garden Hose Sprayer will be available: DDT; P-R (Pyrethrum-Rotenone); Arsen-O-Spray; Cryolitespray; Nic-O-Spray; Pyr-O-Spray; Rot-O-Spray; Funguspray; Sulph-O-Spray; Vitamin B; Weed-O-Spray. 35c each; 12 for \$4.00.

HAYES JR. SPRAY GUN. Attaches to the garden hose and makes spraying as easy as sprinkling the lawn. Full 3 gallon capacity. Sprays up, down, sideways. Suitable for all spraying purposes but ideal for applying 2,4-D Weed Killer on the lawn. Weight 3 lbs.

Hayes Jr.	3 gal.	\$8.35
Hayesette	1 1/2 gal.	4.35

NO. 500 TRI-CON FERTILIZING UNIT, for attaching to garden hose. Applies soluble chemical fertilizer in liquid form. It provides a quick clean, effective and safe method of applying plant food to Lawns, Flower Gardens, Vegetable Gardens, etc. The trigger controlled valve shuts water off immediately.

Price equipped with pint jar, \$4.75.

TRI-CON NOZZLE with shut off control and adapter.
Price: (Each \$3.50)

HAND DUSTERS



D-12 AIRLINER DUSTER—Powder Compartment 3"x4" about 1 pint. Pump 1½" by 12". Oil treated leather. Weight 1 pound.

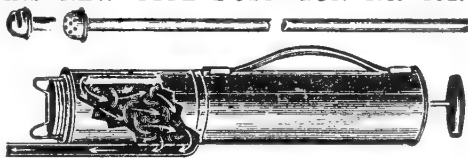
Price: (Each 75c).

NO. 355 ACME DUSTER—Dust compartment 1¾"x4½", capacity 3 ounces. A handy efficient duster for small household jobs. Price: (Each 88c).

NO. 120 DOBBINS DUSTER with Y Discharge. Capacity 3 pounds. Usable as one or two row duster, well built and efficient. Price: (Each \$3.75).

B-K DUSTER. (Acme 390). 1 quart powder chamber, 12-inch discharge tube, 18-inch pump. Pump and tube unscrew from powder chamber. Delivers a tremendous blast of air, user stands upright. Shipping weight 2 lbs. Not prepaid: (\$1.55).

DOBBINS NEW TYPE DUST GUN No. 132. This



small duster is very convenient for small plots and it will handle all powder insecticides. Will be found very suitable and handy for poultry and household dusting. Has a 24-inch extension tube, nozzles for dusting either top or underside, positive check valve. Capacity, one pound. Weight, 2 pounds. Not prepaid: (\$2.00 each).

CHAMPION KNAPSACK DUSTERS. Two adjustable straps distribute the light weight across the operator's back, leaving arms and hands free. While the operator stands erect, he can reach the underside of the bottom leaves of the lowest plant, or shoot powder 30 feet in the air. Feed regulator—good, steady flow—non-corroding all brass parts—galvanized tank with a capacity of about 20 pounds. Pushing the long operating lever up and down is less work than turning a crank. Not prepaid.

No. 100, Double Action Duster.....\$31.00

No. 200 DOBBINS SUPERBILT CRANK DUSTER. A powerful machine for field dusting and for use in large areas. Provided with a positive feed and indicator that can be quickly set to accurately control quantity. The powerful air-blast breaks up the powder to a fine, uniform dust. Dusting equipment includes four 15-inch pipes, 1 branch connection, 2 elbows, 2 nozzles. Capacity, 5 to 10 pounds. Weight, 15 pounds. Not prepaid: (\$24.80 each).

HOSE REEL

New Improved Cart Type Hose Reel has capacity for 100 feet of hose. Very sturdy durable construction, easy to handle, low in price. Green enamel finish. Weight 13 lbs. Price: (Each \$3.95)

Prices listed are those in effect at time of printing and are subject to whatever revisions may be caused by advancing costs and government regulations.

LAWN MOWERS

CLEMSON HAND LAWN MOWERS are made by the manufacturers of Star Hack Saw Blades. They are precision built, light weight, with finger tip adjustment of cutting height, and easy adjustment of cutting blade to bed-knife.

Model	Width	Weight	Price
16	15"	29 lbs.	\$23.95
17	17"	32 lbs.	28.95
E17	17"	37 lbs.	33.95

WORCESTER LAWN MOWERS are made by Savage Arms Corporation, long time makers of guns, rifles and ammunition—well known to all. These mowers are sturdy and well built with conventional adjustment of cutting height and adjustment of blade to bed knife.

WORCESTER HAND MOWERS

Model	Width	Weight	Price
350	16"	37 lbs.	\$19.85
450	16"	41 lbs.	21.90
550	16"	40 lbs.	28.60
550	18"	42 lbs.	30.20
600	16"	38 lbs.	35.25

WORCESTER POWER MOWERS

750	18"	97 lbs.	1.1 HP	\$109.00
900	21"	118 lbs.	1.6 HP	132.80

LAWN TRIMMERS AND EDGERS

American 6" Trims and Edges.....	24	lbs.	\$17.50
401 Gardex Wheel Edger.....	3	lbs.	2.65
2 Plant Jr. Edger.....	3¾	lbs.	2.75

GRASS CATCHERS

Grass Catchers permit the removal of grass clippings from the lawn to prevent them from being tracked in the house. They are convenient to use and efficient.

FOR HAND MOWERS

	Each
HS114 Fits Mower widths 12" thru 18".....	\$2.50
HS224 Fits Mower widths 12" thru 18".....	2.90
HS234 Fits Mower widths 12" thru 18".....	2.90
Forco 5 Width 20½" ball bearing Caster Wheel on bottom.....	3.45

FOR POWER MOWERS

243-1S Fits Mower widths 15" thru 21".....	4.50
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GOODRICH LAWN HOSE

KOROSEAL GARDEN HOSE is made of Koroseal flexible material. Won't swell or rot in normal service. Crackproof and kinkproof. Fine polish finish, in bright red or bright green, multiple sided.

Price Coupled: (25 ft. \$5.75) (50 ft. \$9.80) (75 ft. \$13.85)

SIGNAL RUBBER HOSE, one braid, ¾", 15 sided. Price Coupled:

Black (25 ft. \$3.70) (50 ft. \$6.70) (75 ft. \$12.00)

Green (25 ft. \$4.20) (50 ft. \$7.70) (75 ft. \$14.00)

GARDEN CLUB RUBBER HOSE, reinforced with single ply of Circlock Cord; decagon cover in red or green.

Price Coupled: 25 ft. \$5.10) (50 ft. \$9.50)

See How Easy It Is to Order by Mail

Parcel Post Information...

PACKAGES weighing not more than 70 lbs. and measuring not more than 100 inches in length plus girth (distance around) at widest point, may be mailed to all zones at the rates shown on the right.

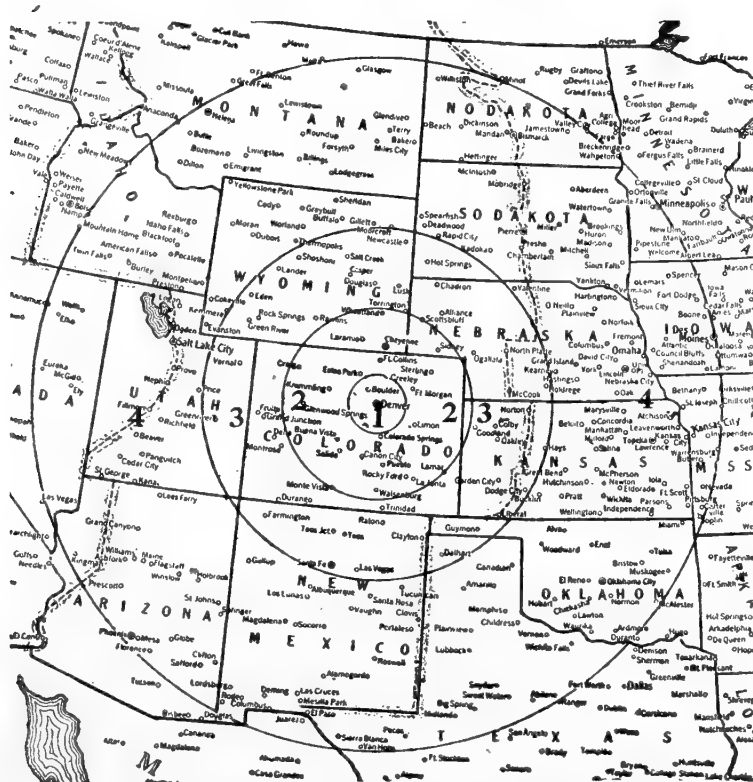
TOTAL THE SHIPPING WEIGHTS—On items that are not postpaid total the weights and allow a pound for packing. On packages weighing over 8 ounces, the post office figures any part of a pound as the next full pound.

FOR EXAMPLE—If your order weighs 8 pounds 1 oz., the 9-pound rate will apply. To Zone 3, the postage would be 37c.

SEND ENOUGH POSTAGE—We will return every cent of postage not needed.

C.O.D. SHIPMENTS—It is more convenient and less costly to remit with order. The post office charges a collection fee and a fee for the money order for remitting the collection to us.

No Plants or Nursery Stock Sent C.O.D.



PARCEL POST ZONES from DENVER, COLORADO

Wt. In Lbs.	Local	ZONES			
		1-2 Up to 150 miles	3 150 to 300 miles	4 300 to 600 miles	5 600 to 1,000 miles
1	\$0.10	\$0.12	\$0.13	\$0.14	\$0.15
2	.11	.15	.16	.19	.21
3	.12	.17	.19	.23	.27
4	.13	.19	.22	.28	.33
5	.14	.21	.25	.32	.39
6	.15	.23	.28	.37	.45
7	.16	.25	.31	.41	.51
8	.17	.27	.34	.46	.57
9	.18	.29	.37	.50	.63
10	.19	.31	.40	.55	.69
11	.20	.33	.43	.59	.75
12	.21	.35	.46	.63	.80
13	.22	.37	.49	.68	.86
14	.22	.39	.52	.72	.91
15	.23	.41	.54	.76	.97
16	.24	.43	.57	.80	1.02
17	.25	.45	.60	.85	1.08
18	.25	.47	.63	.89	1.13
19	.26	.49	.66	.93	1.19
20	.27	.51	.68	.97	1.24
21	.28	.53	.71	1.02	1.30
22	.28	.55	.74	1.06	1.35
23	.29	.57	.77	1.10	1.41
24	.30	.59	.80	1.14	1.46
25	.31	.61	.82	1.19	1.52
26	.31	.63	.85	1.23	1.57
27	.32	.65	.88	1.27	1.63
28	.33	.67	.91	1.31	1.68
29	.34	.69	.94	1.36	1.74
30	.34	.71	.96	1.40	1.79
31	.35	.73	.99	1.44	1.85
32	.36	.75	1.02	1.48	1.90
33	.37	.77	1.05	1.53	1.96
34	.37	.79	1.08	1.57	2.01
35	.38	.81	1.10	1.61	2.07
36	.39	.83	1.13	1.65	2.12
37	.40	.85	1.16	1.70	2.18
38	.40	.87	1.19	1.74	2.23
39	.41	.89	1.22	1.78	2.29
40	.42	.91	1.24	1.82	2.34
41	.43	.93	1.27	1.87	2.40
42	.43	.95	1.30	1.91	2.45
43	.44	.97	1.33	1.95	2.51
44	.45	.99	1.36	1.99	2.56
45	.46	1.01	1.38	2.04	2.62
46	.46	1.03	1.41	2.08	2.67
47	.47	1.05	1.44	2.12	2.73
48	.48	1.07	1.47	2.16	2.78
49	.49	1.09	1.50	2.21	2.84
50	.49	1.11	1.52	2.25	2.89
51	.50	1.13	1.55	2.29	2.95
52	.51	1.15	1.58	2.33	3.00
53	.52	1.17	1.61	2.38	3.06
54	.52	1.19	1.64	2.42	3.11
55	.53	1.21	1.66	2.46	3.17
56	.54	1.23	1.69	2.50	3.22
57	.55	1.25	1.72	2.55	3.28
58	.55	1.27	1.75	2.59	3.33
59	.56	1.29	1.78	2.63	3.39
60	.57	1.31	1.80	2.67	3.44
61	.58	1.33	1.83	2.72	3.50
62	.58	1.35	1.86	2.76	3.55
63	.59	1.37	1.89	2.80	3.61
64	.60	1.39	1.92	2.84	3.66
65	.61	1.41	1.94	2.89	3.72
66	.61	1.43	1.97	2.93	3.77
67	.62	1.45	2.00	2.97	3.83
68	.63	1.47	2.03	3.01	3.88
69	.64	1.49	2.06	3.06	3.94
70	.64	1.51	2.08	3.10	3.99

NURSERY COLLECTIONS

Full descriptions of these items on pages 57, 59, 62, 63, 66, 67, 73, 74, and 75

No. 1—BULBS AND ROOTS

\$2.30

Postage and Packing 10c

- | | |
|------------------------------|--------|
| 12 Mixed Gladioli—Unnamed | |
| 3 Mixed Peony Roots—Unnamed | OUR |
| 3 Mixed Dahlia Roots—Unnamed | CHOICE |

No. 3—SPIREA SPECIAL

One each of any 5 varieties listed on pages 69 and 70, same stock and sizes

5 No. 1 shrubs

Postpaid

\$3.75

No. 2—FRUIT COLLECTION

\$2.69

Postage and Packing 12c

- | | |
|-------------------|--------|
| 5 Red Raspberries | |
| 3 Concord Grapes | OUR |
| 2 Gooseberries | CHOICE |
| 3 Currants | |
| No. 1 Grade | |

No. 4—ROSE COLLECTIONS

5 Rose Bushes, No. 1 Grade, Our Selection
From Our Regular Stock

YOUR Choice of Climbers or Bush Roses
(Except Patented Roses)

\$4.25

Postage and Packing 20c

DAHLIA COLLECTION \$2.98 Postpaid

We are making a Special Offer of twelve (12) good roots, our selection, all different colors, no two alike, for **\$2.98**, postpaid. This collection contains some of our finest surplus varieties.

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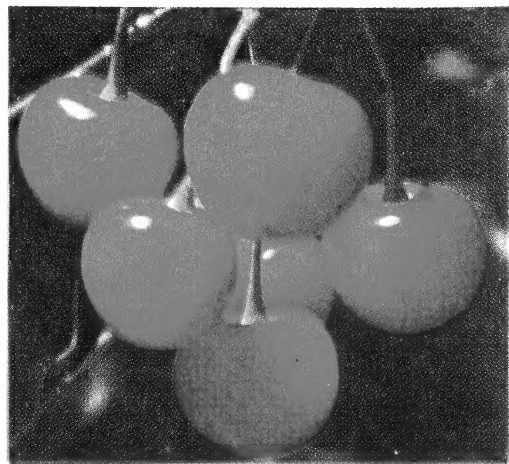
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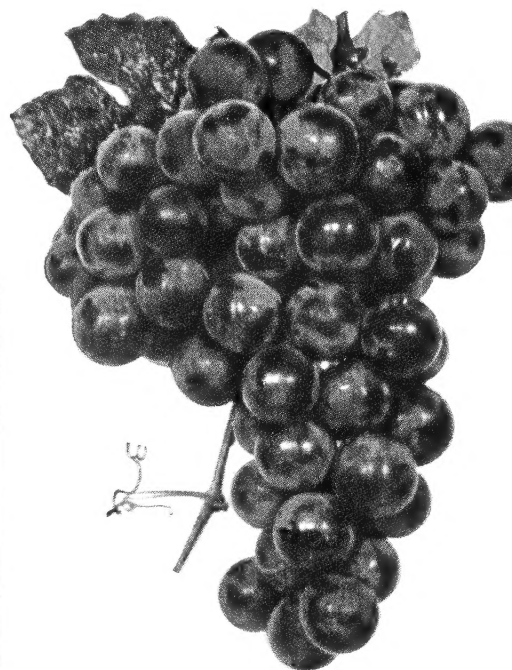
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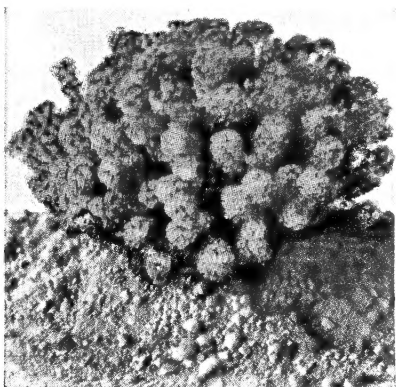
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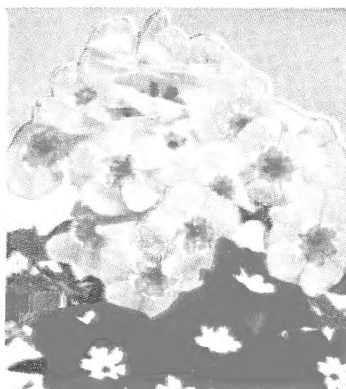
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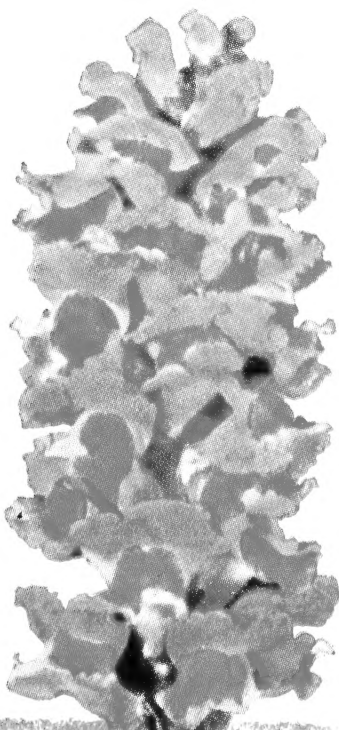


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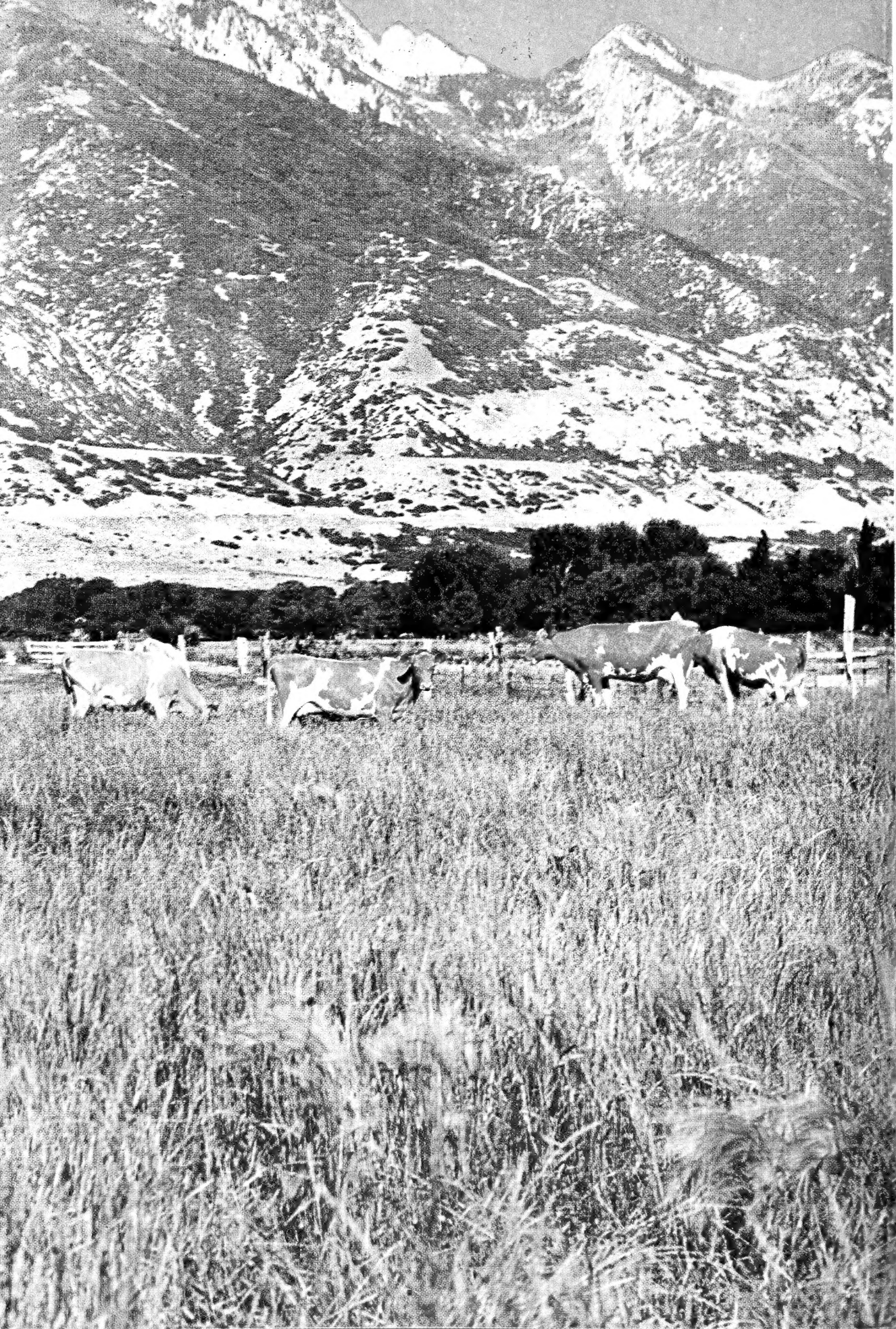
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